The Engraver's Line

By Gene Hessler

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The Engraver's Line

Changes and corrections

p. 12 1898 Trans-Mississippis were the first commemorative stamps printed at the BEP. The first U.S. commemorative stamps, the Columbians, were printed in 1893 at ABNCo.
1914 On June 30 the first issued stamps (1911 2¢) printed on a rotary press.
Delete entry for 1929.
1939 should be 1934.
1957 should be 1955.
p. 110 DUTHIE. Change 1812 to 1862.
p. 124 FORINGER. date of birth is 1877.
p. 136 GEORGE, Morris R. Dates are incorrect.
p. 154 HASS not HAAS.
p. 171 HIPSCHEN, T.R. He did not engrave the 1986 AMERIPEX 22¢ stamps.
p. 304 TOPPAN, C. Date of death is 1874.

Signed
$\$25^{00}$
ref

To Ruth Hill -
- a jewel -

Love,

Gene

The Engraver's Line

An Encyclopedia of Paper Money & Postage Stamp Art

By Gene Hessler

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Books by Gene Hessler:

An Illustrated History of U.S. Loans, 1775-1898
The Comprehensive Catalog of U.S. Paper Money
The Engraver's Line
U.S. Essay, Proof and Specimen Notes

Dedication

THE ART OF security engraving can be traced from Peter Maverick at the end of the 18th century, who taught John W. Casilear, who guided Louis Delnoce through his apprenticeship, who instructed Marcus W. Baldwin, who was the first to employ Robert Savage, who ultimately recognized the artistic talent of Joseph Keller, who this author was fortunate to have known. The author has also been fortunate to have met the few retired and active engravers who have established themselves as worthy progenitors of this art form.

Clarence W. Brazer, Dr. Julian Blanchard and Foster Wild Rice were among the first to investigate and record the work of security and postage stamp engravers in the United States. Their collective torch was passed to Dr. Glenn E. Jackson, who was my friend, colleague and mentor.

This compilation is dedicated to all those artists and engravers who created the work that is listed and described here, and to those who were among the first to recognize the beauty of this art that supersedes what was merely intended to be utilitarian.

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"The work of the bank note engraver holds a singularly isolated and neglected place among the graphic arts of modern times; — and in certain respects its general status presents an amusing paradox. No other class of prints has ever reached so wide a public..." (Thomas 115). Generally the eye does not behold the beauty on the other side of the gummed stamp surface after it is moistened for a journey across town or around the world. The exquisitely engraved vignettes on bank notes often go unnoticed as well. All too often it isn't the beauty of the bank note that the eye beholds; it is the numerals in the corners.

Foreword

GENE HESSLER has made another outstanding contribution for the collector and student of paper money, postage stamps and security documents with the publication of *The Engraver's Line.* This encyclopedia will be a well-read road map of this fascinating art form.

Gene not only provides excellent biographies of the artists, engravers and the designers of security documents, but he vividly portrays the breadth and depth of this printing specialty. He reminds us that every designer and engraver is an artist. Now every collector, not only those of us who have engaged in the professional aspect of wood block work and steel-plate etchings and engravings, can revel in being introduced to the giants of this art form and their lesser known, yet fascinating, counterparts.

Collectors will enjoy matching the art work from their own collections with the various artists and engravers described in Gene's book. I know, because as I read one particular biography, I found myself searching for a piece from my own collection by that very artist and wishing I had other examples by that engraver.

It was a pleasure to recall so many familiar names and faces. I enjoyed the introduction to the mentors and older colleagues of the artists I have known and read about. And, if this is your first introduction to these talented artists, you will have an exciting experience meeting and coming to know them.

Gene's depth of research is clearly visible throughout this handsome volume. His love of syngraphics (the collecting of paper money) and philatelics is evident. He takes the reader through the work of the security documents and particular talents of the artists and engravers as they honed and refined their skills over lifetimes that were devoted to their chosen craft. He shows how the artists of both types of work had to understand the other's profession and talent. We see that those artists and engravers who worked on larger security documents had the opportunity to display their talents differently than those artists who worked on postage stamps. Gene helps us to visualize the difficulty of reducing the broad dimensions so that the relevant detail was more clearly and cleverly portrayed. But this is not a book that focuses solely on the past. Gene brings us through all of the generations of those involved with security paper and postage stamps right up to today and shows us that although technology and equipment may have changed, the talent and dedication of our current artists and engravers has not.

The professional in graphic arts, the student and collector all owe Gene Hessler a tremendous debt of gratitude for producing this monumental book, the first of its type.

Robert J. Leuver
Executive Director, American Numismatic Association.
Director, U.S. Bureau of Engraving and Printing, U.S. Department of the Treasury 1983-1988.
Member, Citizens Stamp Advisory Committee, U.S.P.S., 1982-1988.

Preface

THIS IS THE FIRST major composite listing of designers and engravers of bank notes and postage stamps to be published. A typewritten *ms* by Sol Altmann in the New York Public Library is the nucleus on which the listing that follows is based. Serious study of designers and engravers continues to grow, and since there was no composite listing of the artists who created both bank notes and stamps, I found it necessary to compile one. The sources of this information, which are listed in the bibliography, include numismatic, syngraphic and philatelic catalogs, journals and periodicals; general listings of artists and engravers; bank note company histories; obituaries, biographies; and every known edition of *Who's Who* and similar biographical material. These, along with records at American Bank Note Co., the U.S. Bureau of Engraving and Printing, and conversations and correspondence with designers and engravers, have enabled me to complete this initial effort.

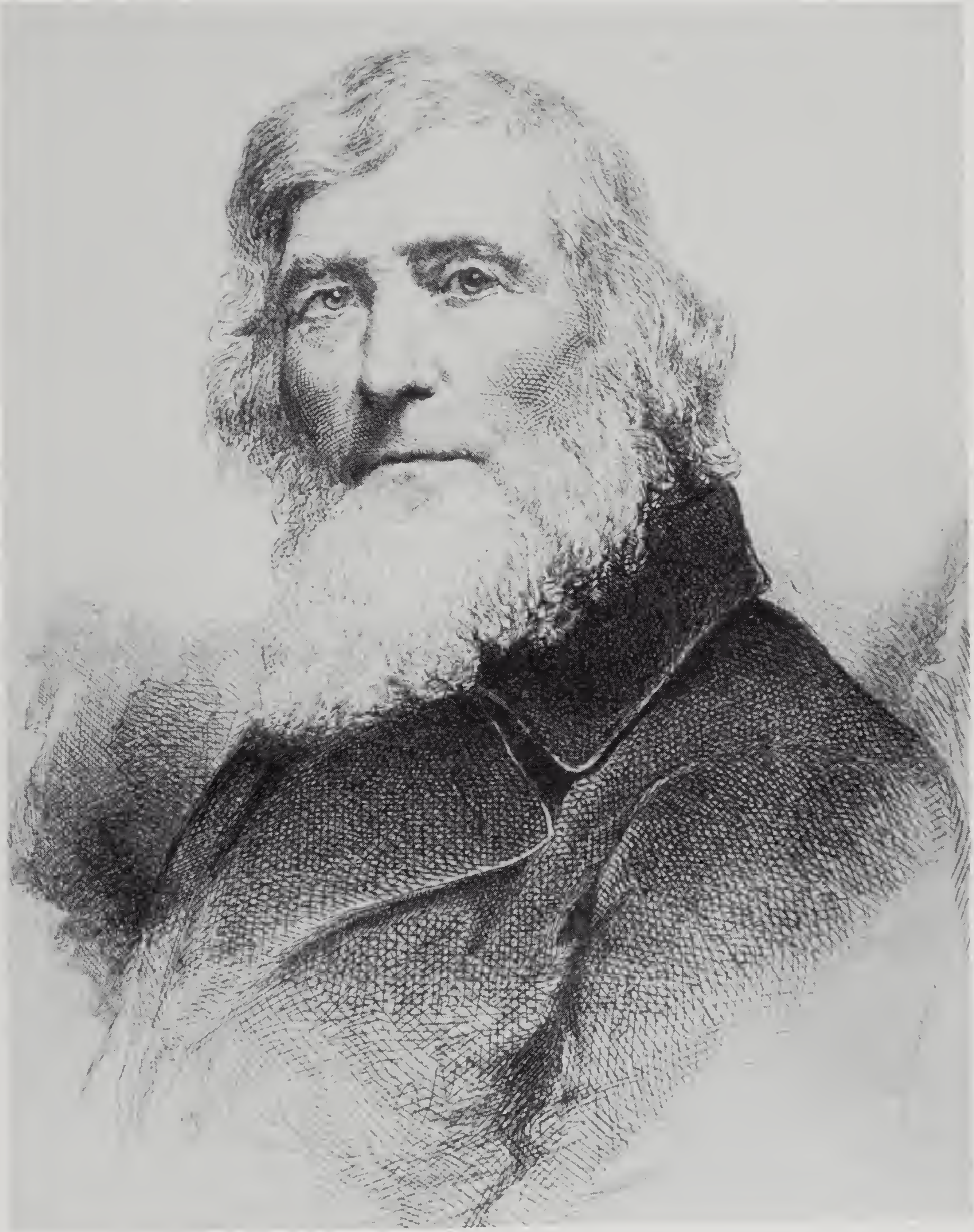
Encyclopedias and histories of artists, sculptors, and engravers rarely acknowledge designers and engravers of stamps and bank notes. Some of our most beautiful federal bank notes were designed by major American artists such as Will Low, Edwin H. Blashfield and Walter Shirlaw, who designed, respectively, the $1, $2 and $5 silver certificates of 1896. But their designs are seldom mentioned in studies of these artists, despite the fact that when these notes circulated they undoubtedly were seen and handled by more people than all of the combined lovers of art who saw the works of these three artists in any gallery or museum.

Interest in the creators of postage stamps began decades before a similar fascination occurred concerning bank notes. In the 1950s, artists began to receive commissions to design U.S. postage stamps. Before that date, with some exceptions, stamps were designed by salaried artists at the private bank note companies and the Bureau of Engraving and Printing. With the exception of minute changes, designs of U.S. bank notes have not been changed since 1928. No commissions have been offered for U.S. bank note designs in this century.

Although the title of this listing is relatively specific, other information has been included: many early bank note printers and printing companies whose contributions to the development of security printing were significant; additional, related information that should be useful, including sketches of some bank note companies; and whenever the more colorful counterfeiters came to my attention I decided to add them to this listing. If all of this were acknowledged on the cover, it would make the title unwieldy and much too long.

During the preparation of this listing I was not surprised to discover that most designers and engravers are extremely private people; they prefer to shun notoriety. In some instances a few chose to submit only the most basic information; a lesser number preferred to exclude themselves, and I respect their prerogative. For this reason, some biographies include little information, and a few that should be included here are not. It is my sincere hope that the following pages will stimulate further interest in the artists who create and have created stamps and bank notes. Just as ancient Greek *amphorae*, once intended only for utilitarian purposes, are now found in museums, miniature utilitarian engravings created for postage stamps and bank notes, in many instances, are also worthy of a place in art museums.

This mature portrait of engraver Alfred Jones was engraved by Robert Savage.



Asher B. Durand

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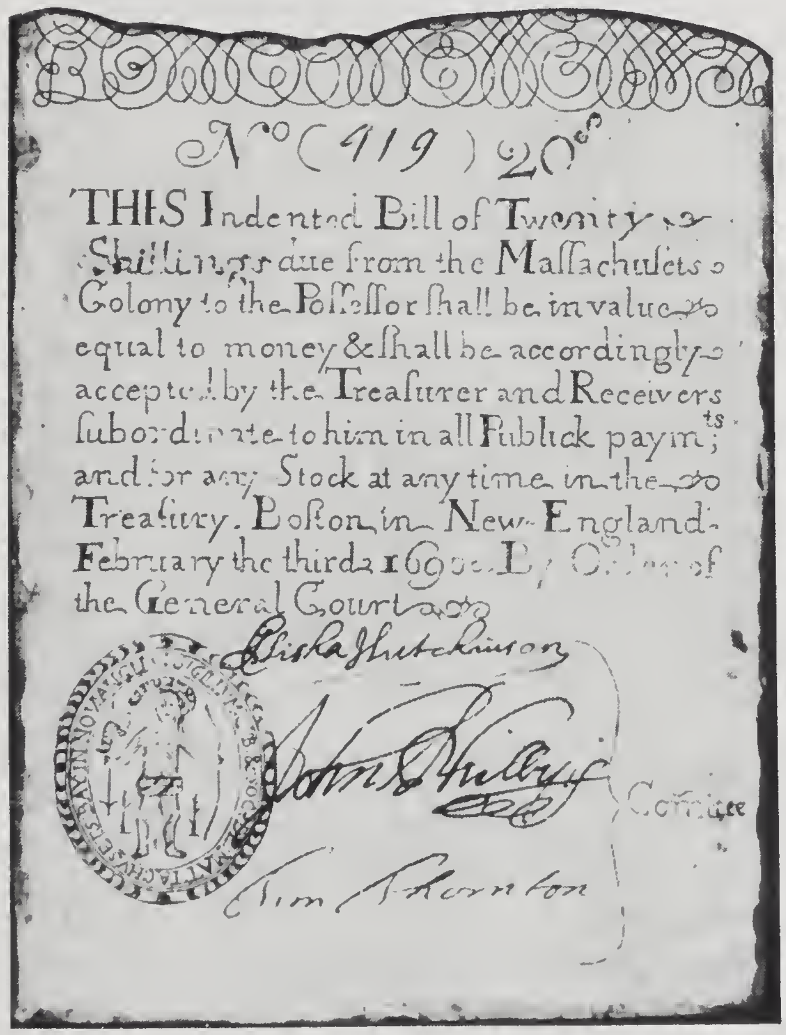
A BRIEF HISTORY OF ENGRAVING IN AMERICA

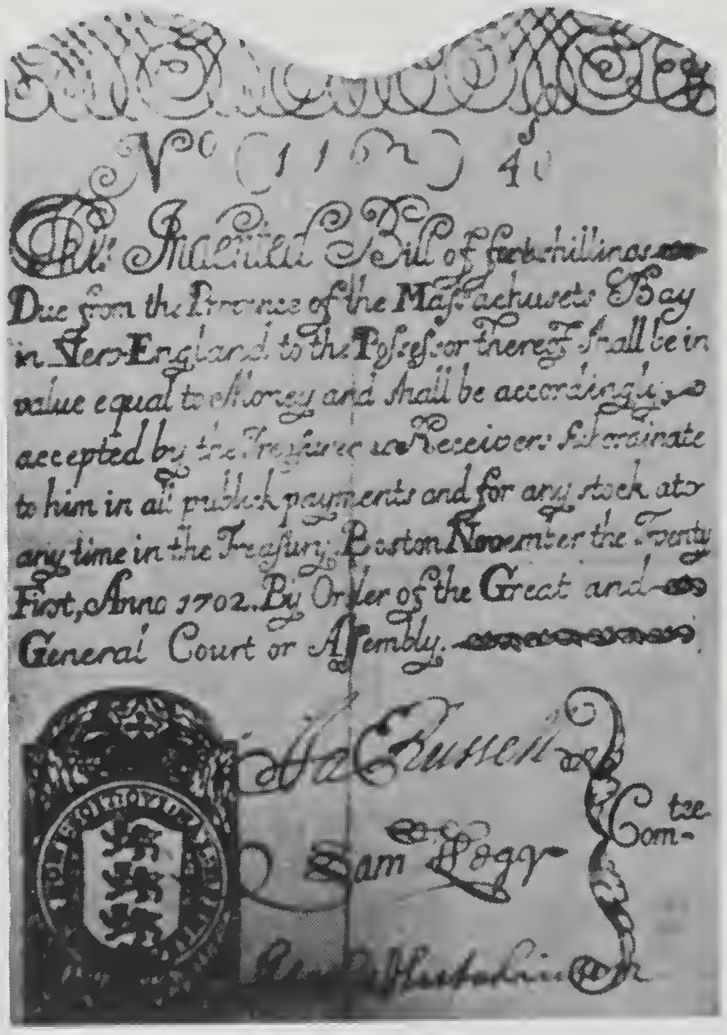
THE HISTORY OF ENGRAVING in America goes back to the 17th century. Joseph Jenckes (Jenks), credited with cutting the crude punches, i.e., NE, III, VI and XII, for the New England threepence, sixpence and shilling coinage of 1652 could have been the first in his field in Colonial America.

In 1686 the Massachusetts Council approved a bank that would issue bills backed by land securities. A rolling press was purchased and used "for tryall of the plates and printing of some bills." In 1688 the scheme was abandoned; the bills were never issued (Newman 158). The Massachusetts Colony notes of 1690 could be the earliest surviving engraved examples from copperplates. In 1702, John Coney of Boston engraved plates with a bit more artistic imagination and a different state seal. Bills of this type were easily counterfeited because the soft copperplates wore unevenly. They often needed re-engraving; the result was bills that bore inconsistent printing variations. From an historic perspective it should be mentioned that James Printer (Amaweakin), an Indian from Hassanamesitt ("a place of small stones"), in the county of Worcester, Massachusetts served as an apprentice in 1659 to printer Samuel Green in Cambridge.



No (419) 20s
THIS Indented Bill of Twenty
Shillings due from the Maſſachuſets
Colony to the Poſſeſſor ſhall be in value
equal to money & ſhall be accordingly
accepted by the Treaſurer and Receivers
ſubordinate to him in all Publick paymts
and for any Stock at any time in the
Treaſury. Boſton in New-England
February the third 1690. By Order of
the General Court
Elisha Hutchinson
John Phillips
Tim Thornton
Comittee

Massachusetts note dated 1690.



No (11[illegible]) 40s
This Indented Bill of [illegible] shillings
Due from the Province of the Maſſachuſets Bay
in New England to the Poſſeſſor thereof ſhall be in
value equal to Money and ſhall be accordingly
accepted by the Treaſurer & Receivers ſubordinate
to him in all publick payments and for any ſtock at
any time in the Treaſury. Boston November the Twenty
First, Anno 1702. By Order of the Great and
General Court or Aſſembly.
Is Russell
Sam Legg
[illegible] Hutchinson
Com-tee

Massachusetts note dated 1702.

One hundred and six years before the Declaration of Independence was signed, John Foster, who had the first printing press in Boston, engraved, in wood, a portrait of Reverend Richard Mather (Stauffer I: xxi). The first engraving of a portrait on copper was probably done by Thomas Emmes — in 1701 he portrayed the Reverend Increase Mather (Stauffer I: xxiii). American-born engravers Thomas Johnston and Nathaniel Morse engraved copperplate portraits in 1708 and 1729 respectively. But in 1727 Peter Pelham painted and then engraved, in mezzotint, a portrait of the Reverend Cotton Mather, the first "really meritorious portrait plate in this country" (Stauffer I: xxiv).

Reverend Richard Mather by John Foster

Reverend Increase Mather by Thomas Emmes.

"The fathers of Massachusetts kept a watchful eye on the press; and in neither a religious nor civil point of view, were they disposed to give it much liberty. Both the civil and ecclesiastical rulers were fearful that if it was not under wholesome restraints, contentions and heresies would arise among the people. In 1662, the government of Massachusetts appointed licensers of the press (Gen. Daniel Gookin, and the Reverend Mr. Mitchell, of Cambridge, were the first...), and afterward, in 1664, passed a law that 'no printing should be allowed in any town within the jurisdiction, except in Cambridge;' nor should any thing be printed there but what the government permitted..." (Thomas 6-7). Offenders would forfeit their presses and be disenfranchised. Printers were generally held in low esteem, and were required to draw apprentices from "the lowest people," said James Parker.

Two decades prior to the American Revolution the art of engraving in America was advancing, spearheaded by Nathaniel Hurd, Henry Dawkins, Robert Aitken, Paul Revere, James Smither, Joseph Callender, Amos Doolittle and Peter Rushton Maverick.

During the quarter century both preceding and following the turn of the 19th century, immigrants experienced in many trades and professions, including engravers who saw potential in a country with no engraving tradition, came to the United States to gain recognition and to make their fortunes. Just as American classical musicians once relied upon European guidance to achieve traditional Western classical musical performance practices, American "engravers looked to Europe for example, they worked with fierce determination that they would soon overtake their leaders" (*Potpourri* (5)). By the middle of the 19th century American engravers had set a standard that was equal to the work of their contemporaries anywhere in the world. To complete the process, i.e., to make prints for the emerging engravers, it was necessary, at times, to import copperplate printers from England.

Early American engravers and those to immediately follow would establish a genre. They often found it necessary to augment their earnings by engaging in peripheral work. Some operated drawing schools, some taught painting, some were mapmakers and others sold books and prints. The age of specialization was a century into the future. Philadelphia engraver James Smither advertised that he would ornament guns and pistols. John Norman, an engraver who died in 1817 at the age of 69, advertised in the 11 May 1774 edition of the *Pennsylvania Journal* stating his willingness to perform all types of engraving including "Shop Bills; Bills of Exchange; Bills of Lading; Maps; Portraits and..." — one could almost hear his descending voice at the end of a long breath — "many other things too tedious to mention." In 1773 Nathaniel Hurd received £4.13 for mending a saucepan and removing and replacing a crest on two items (*Notable* 6).

The popularity of George Washington made the first President of the United States a natural subject for painters and engravers. In 1799 John Norman probably engraved the first portrait of Washington (Stauffer I: 193).

The best of the early 19th century engravers found security in bank note engraving. However, they were not fortunate enough to earn the income equal to that of a contemporary, the popular painter Gilbert Stuart. An *Engraver's Potpourri*, devoted to the work of Stephen Alonzo Schoff (1818-1905), describes the 19th century engraver in a way that could apply to most engravers of security paper:

> He had entered a respectable profession, one that offered less glory than the painter's, but probably more security. The engraver's business was to follow the painter. He interpreted paintings and drawings for the printing press, turning unique designs into quantities for publication. Usually each enterprise was initiated by the painter or a publisher, though sometimes the engraver himself might underwrite publication. The primary purpose was, of course, to make money for the painter who might have an unsalable painting on his hands, and to make a living for the engraver. Several degrees of engraving were recognized. Highest was the reproduction of great paintings. This might occupy the engraver for two or three years and bring him several hundred dollars, or even several thousand. Lower in the hierarchy was the illustration of books, including the popular annuals that flourished in the 1830s and '40s. Intermediate in status, but ever increasing in volume, was bank-note engraving. Only the most skillful of engravers could hope for employment with the bank-note companies, for their task was to produce engravings that could hardly be imitated by less reputable engravers ([5]).

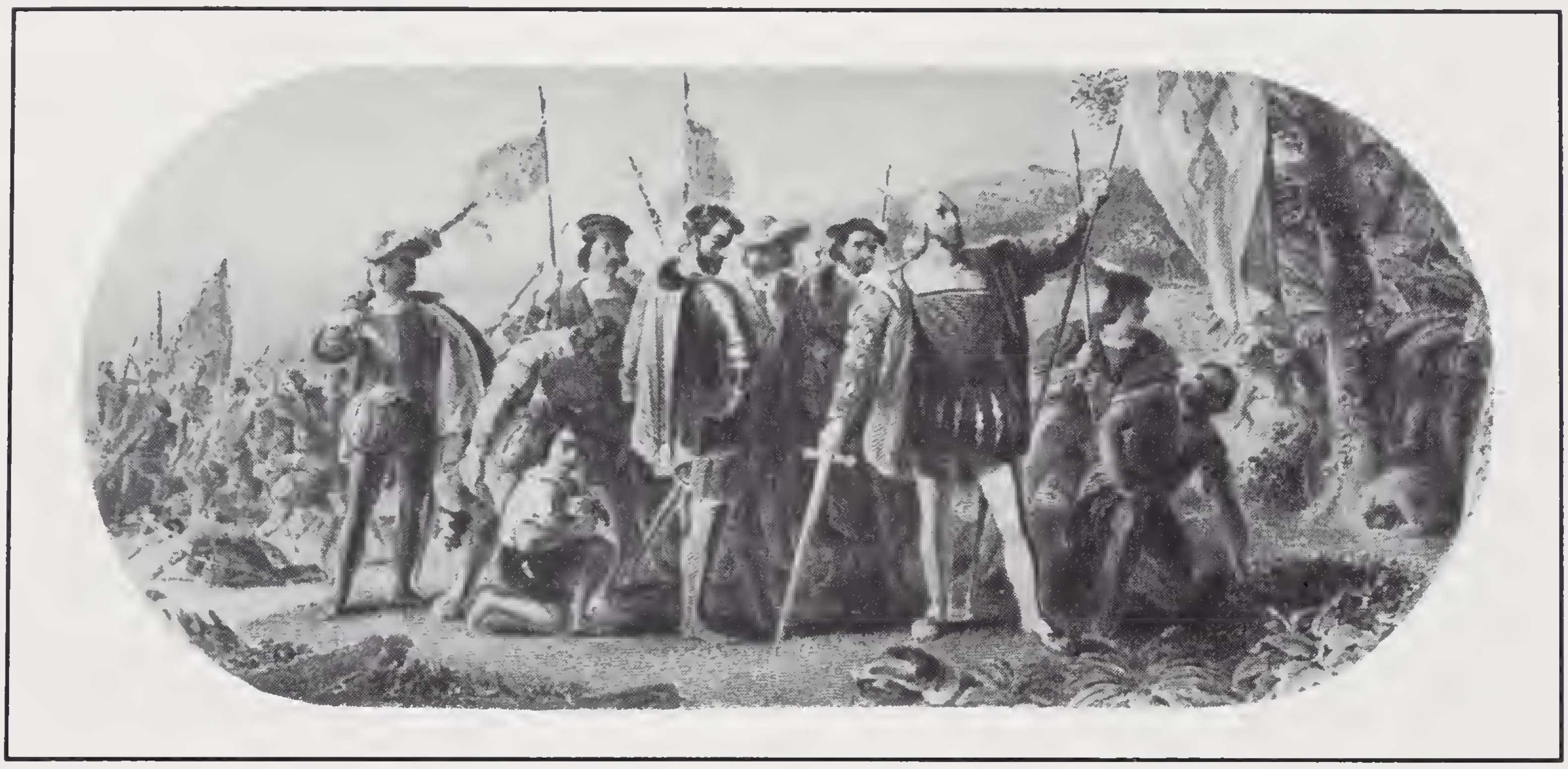
Notwithstanding, the identity of the bank note engravers and the merits of their often prodigious work most often was known only to their employers and their colleagues.

The "golden age" of engraving is often applied to the second half of the 19th century. Among the legendary engravers at work, in addition to Schoff, we should name Burt, Delnoce, Girsch, Jones, and the Smillies. As meritorious as their commercial work was, it was their creations of life-like portraits and breathtaking vignettes in steel for postage stamps and security paper, e.g., bank notes and bonds, for the private bank note companies and the Bureau of Engraving and Printing that was their true forte.

"The engraver" wrote Warrell Hauck, Superintendent of Picture Engraving at American Bank Note Co. (1956-1980),

> must be endowed with two profound qualities: first, an affinity for an appreciation of art; second, the sensitivity and temperament which enables him to adapt to the rigid requirements of security engraving. The engraver enjoys none of the freedoms enjoyed in other art forms such as oil painting, water colors or freehand drawing. He must restrict himself to what we in the profession call 'studied carelessness' (*Opening* [5]).

The mural-like paintings by John G. Chapman, John Trumbull, John Vanderlyn and Robert W. Wier that adorn the Capitol rotunda in Washington, DC were recreated in steel for the backs of the first charter national bank notes in 1863 and they were cut in miniature for postage stamps in 1869; these engravings exemplify the genius of the engravers.



This version of the *Landing of Columbus* was engraved by Lorenzo Hatch.

Stamp and security paper design is an art unto itself. Much must be conveyed and distributed without crowding, often into a small area. Among the most prolific postage stamp designers were C.A. Huston (1857-1938) and Victor S. McCloskey (1908-1988). In some instances one artist wore two hats. Will Low and both George and John Casilear designed bank notes and engraved them as well. Their art work hangs in American museums.

The first free-lance artist to design a stamp after the Bureau of Engraving and Printing took over the responsibility of preparing postage stamps in 1894 appears to be Esther Richards; she designed the 1934 *National Park* 10¢ stamp (A248). Captain L.E. Schick was next; he designed the 1936-37 *Army* 5¢ stamp (A262). There were a few others prior to 1947, but it was in the mid-1950s when artists were commissioned to design the increasingly popular commemorative postage stamps.

Most of the following succinct description of postage stamp design, by Williams, applies to bank note design as well:

> After the production of the artist's drawing, the next step, often, is the production of a much more finished piece of work, that is sometimes referred to as the 'model.' Models vary according to the printing process to be employed; sometimes a model is a drawing in line – that is, with the light and shade represented entirely by lines, straight and curved, thick and thin, close together and spaced wider apart; sometimes it is in wash or continuous tone, like a watercolor painting that it often is. Sizes of models vary; a frequent practice is to make them something like ten times (linear) the size that the stamp will ultimately be (I: 82).

Finally, postage stamp and bank note designs are photographically reduced to actual size so the engraver, with a sharp point, can make the first preliminary lines on gelatin placed over the photograph.

The (carbon) steel die (about ¼ inches thick measuring about 3½ x 4 inches), that will receive the initial stamp or bank note etching, is polished like a mirror; then it is heated over an alcohol lamp. "'Sands Ground' wax in small ball form, which comes from England, is placed into two pieces of clean white silk which strains the ground onto the hot die. This ground is then rolled with a rubber roller to evenly cover the steel die, then smoked by a candle, or by a gas jet, to produce a black surface. The die is then cooled, free from dust. If you have done much of this your die is properly prepared, and from now on you take your life in your hands" (Chorlton 79).

"When the waxed die is cool you put it in a frame. My frame was a square piece of plate glass with a round buildup topped by a wool blanket ½-inch wide pasted on top so as to be 1/16 of an inch above the surface of the die. The buildup is for the parallel rule to rest upon.

"Most etching drawing is done against the edge of the rule. The drawing of the point through the wax produces a bright line. This is not what they call free hand etching, but is mechanical and no mistakes can be made. When the picture has been finished, the plate with the etching drawing is prepared for the acid; nitric and acetic, Spencer and other acid formulas all biting the steel differently. Which is used depends on the picture you have to do. The stages that the work goes through can hardly be explained..." (Chorlton 80).

Once the wax ground has received the etching it is ready for the acid biting. The surface that surrounds the etching is built up with a ½-inch layer of "wax made of Burgundy pitch and rosin, first biting about ten seconds; the light parts of the picture are then painted out with sealing wax (imported) dissolved in alcohol, which keeps the light lines from biting more into the steel" (Chorlton 80). The acid is removed and the ground surface dried. Re-biting for darker portions is done carefully by the engraver. Alcohol removes the wax ground.

Each engraver develops his or her own wax ground and etching acid formula. The following examples were first printed in *The EPJ* (April 1948, 80-82).

Wax Grounds

F. Girsch's Etching Ground (Vignette engraving)
10 oz. asphaltum, 5 oz. white wax, 8 oz. Burgundy wax, 1 oz. mastic

James Bannister's Etching Ground (Vignette engraving)
½ oz. white wax, 3 oz. Burgundy pitch.

Wall Wax

Burgundy pitch and yellow beeswax in equal proportions for fairly soft wall wax. For a harder wax add to proportion of beeswax. Melt pitch first, small pieces at a time. When thoroughly melted, add the wax gradually, mixing well. When finished, strain a little at a time through three or four thicknesses of cheesecloth into a part of cold water. Work thoroughly with the hands when sufficiently cooled.

Etching Acids

Spencer Acid
(This mixture gives a smoother line than with equal parts.) 3 parts silver nitrate, 1 part mercury.

James Smillie's Etching Acid. (Landscape Engraving)
1 oz. nitric acid, 3 oz. acetic acid.
For biting the skies of his masterpiece "The Rocky Mountains" after Albert Bierstadt's painting, October 3, 1874, he used: — 1 oz. nitric acid, 50 oz. water.
Time in minutes of biting with above acid: First — 1½; second — 2¼; third — 1 3/4; fourth — 2; fifth — 2; sixth — 1⅓; seventh — 2¼; total 12½.

Edward M. Week's Strong Spencer Acid (Letter Engraving)
a. 2 oz. nitrate of silver crystals, 5 oz. nitric acid (c.p.), 10 oz. water; or
b. 2 oz. nitrate of mercury, 5 oz. nitric acid (c.p.), 10 oz. water.

Lorenzo J. Hatch's Acid. (Vignette Engraving)
For biting on copper: 5 oz. hydrochloric acid (must be true hydrochloric not muriatic), 1 oz. chlorate of potash, 44 oz. water.
Warm the water, dissolve the potash perfectly, then add the acid.
Concentrated solution: 1 oz. hydrochloric acid, 1/5 oz. chlorate of potash, 5 oz. water.

George T. Jones' Corrosive Sublimate
1 large thimbleful of corrosive sublimate, 2 large thimblesful of alum, 1 qt. of water.
Acid for biting copper
1 oz. nitrous acid, 3 oz. water.
Halftone acid for biting copper.
A neutral solution of ferric chloride.

What the engraver does next, at times, is incredible. To etch, the engraver uses a point to cut; a graver is used to make dots and dashes of many depths and widths that will portray a variety of gradations of tone. "Every variety of effect, or tone, or direction of line, comes as the result of a decision on (the engraver's) part, sometimes spontaneous, but usually very carefully planned..."(Sloane 350). With a variety of cutting edges the engraver spends weeks creating a stamp image or a bank note portrait in reverse — in actual size. If a mistake is made for any reason the remedy is not a simple one. Carl Arlt (Sloane 355) relates the following as he engraved the *Swedish-Finnish Tercentenary* stamp. (An unusual mishap had occurred in the engraving of this die, one of those things all engravers dread and which, fortunately, happen so very seldom.)

> (I) was working overtime on this die at the Bureau, and about 9:30 at night, with no one within a hundred feet...(I) suddenly heard a loud noise.... (My) graver slipped, and as a result (I) cut a long scratch that extended from the hat of the figure in the foreground of the picture all the way to the branches of the tree (Sloane 355).

It took Mr. Arlt nine hours to repair the damage.

Steel intaglio engraving requires the artist to cut incised lines into a steel plate with a variety of engraving tools with different points; the subject or design is reversed. Following approval the die is hardened. A siderographer (one who writes on iron) rolls a cylinder of soft steel back and forth on a transfer press until the entire engraved area is picked up by the 12 to 15 tons of pressure. The roll with the image in relief is hardened. For bank note or stamp, the image is rolled into proper plate positions on the appropriate plate. If a plate is destined for a rotary press it is curved to an arc of 180 degrees; two plates fit one press. For a flat bed press a plate remains flat. The plate is then hardened and chromed in preparation for printing.

Today, multiple images can be made from the original plate, or "basso," by coating an engraved copperplate with plastic; the result is an "alto" image of raised surfaces. For a bank note plate of U.S. Federal Reserve notes, 32 alto images are welded together by a special radio-frequency machine.

When the finished plate is inked and wiped, the incised lines retain ink. The applied paper is forced into these lines under great pressure. The result is lettering, a portrait or a design that actually sits above the surface of the paper. These lines of different depths and widths obviously retain different amounts of ink. Consequently, printed lines will appear darker or lighter depending on the width and depth of the engraved line.

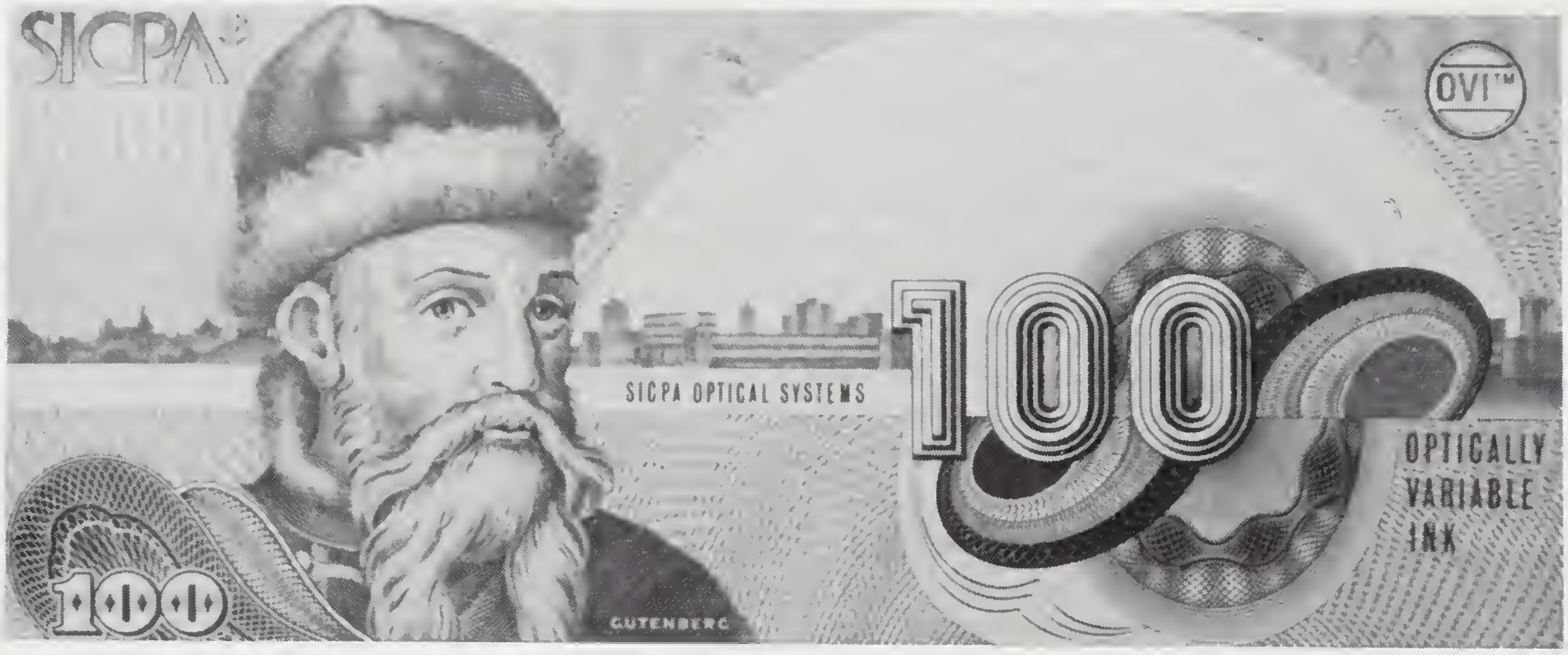
James Smillie's engraving of the presentation of *The Declaration of Independence* (A41) or any of the Columbian issues (A71-86) by Charles Skinner and Robert Savage illustrate what words cannot describe. In this century we marvel at the portraits by Charles A. Brooks (b. 1905), the prolific engraver of U.S. stamps.

The previously-mentioned examples were steel, intaglio-engraved — the most difficult type of engraving to master and to emulate. The first examples of intaglio engraving were done as playing cards in the 1430s. (Based on evidence by Lehman-Haupt, the previously accepted date of 1446 is incorrect.) The costumes worn by the human figures on the card designs helped Lehrs, Geisberg and others to arrive at this date (VB 13). The anonymous artist who engraved these cards is known by the eponym "Master of the Playing Cards." He could have worked in the Middle or Upper Rhine or perhaps in Basel. In the early 1450s both he and Gutenberg were working in related fields in Mainz; it is conceivable that they knew each other and perhaps worked together (L-H 11).

The Fool on a tarot card from the 15th century.

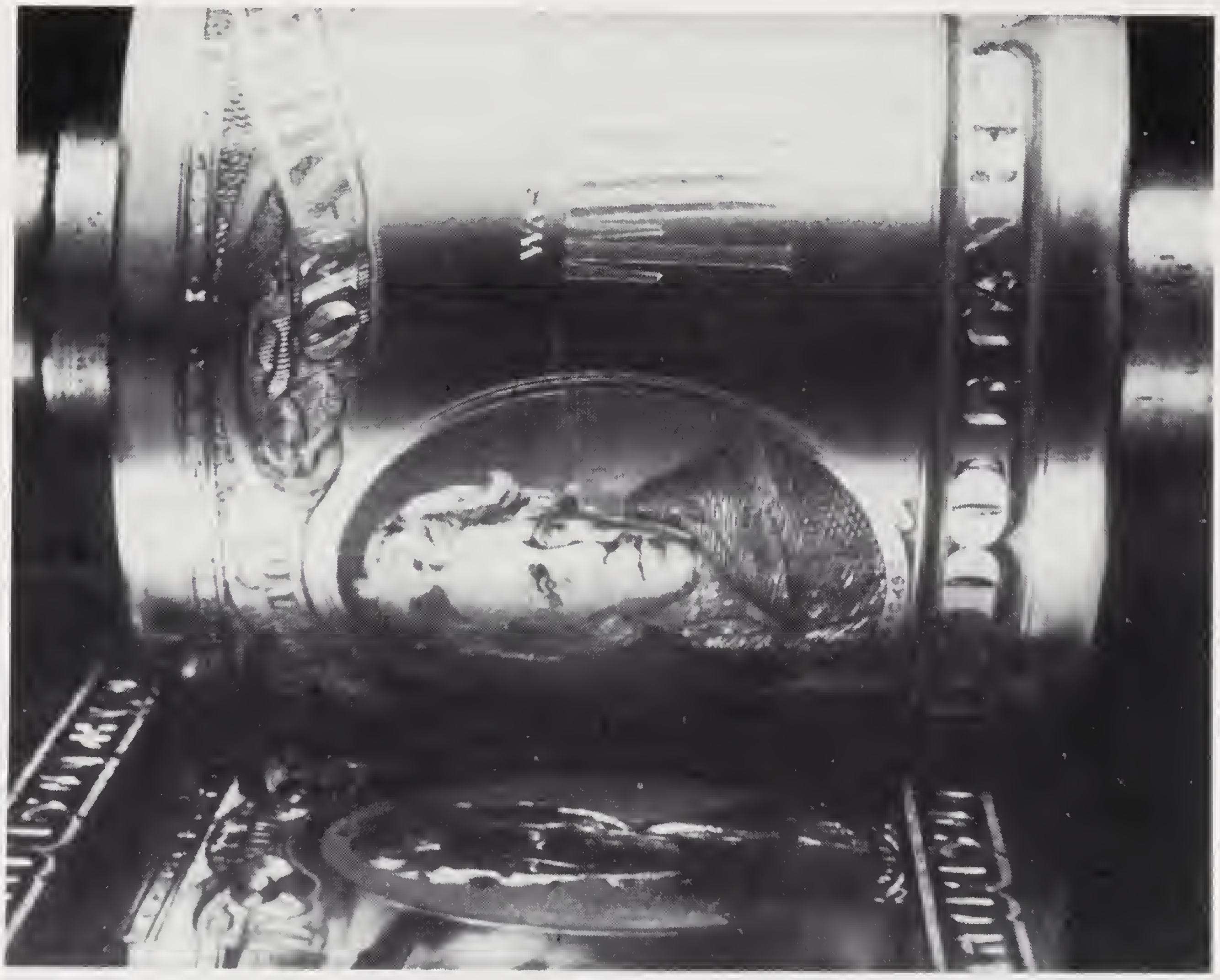
It seems that the engravings of the Master of the Playing Cards "were not created *a priori* for a card game, but as technical steppingstones toward the multiple reproduction of (illuminated) miniatures" (L-H 3). These playing card motifs, probably from a model book, were later found in a variety of manuscripts and codices, e.g., the *Book of Hours of Catherine of Cleves* (completed ca. 1435) and Gutenberg Bibles, specifically the *Giant Bible of Mainz* (completed 4 April 1452), now in the Library of Congress. Although the miniatures in the *Giant Bible* are superior to the playing card engravings, the latter are in no way crude, considering they are the first copper engravings.

Gutenberg was trained as a goldsmith "and the origin of the intaglio process from the craft of the goldsmiths is recognized by all historians" (L-H 49). It is almost certain "that Gutenberg himself cast relief metal plates from engraved molds" (L-H 57), and "engaged in typographic experiments as early as 1436" (L-H 61). For a while Gutenberg pursued his researches in Strasburg where "he was a kind of broken-down gentleman, a ruined noble, whose great knowledge was, however, bent entirely on inventions" (Bouchot 16). Gutenberg later returned to Mainz.



A portrait of Gutenberg appears on an advertising note by the Swiss firm De La Rue Giori.

In 1455 Gutenberg lost his shop, employees and equipment to Johannes Füst, a creditor. In this take-over Gutenberg's most experienced printer, Peter Schoeffer, went to work for Füst.* With the Master of the Playing Cards as a possible colleague, Gutenberg's experiments probably came to an end. Notwithstanding, we can safely say that Gutenberg, who is lauded as the European inventor of movable type from individual metal molds, was also fundamentally associated with the beginning of intaglio engraving.



An image on a roll in the process of being transferred to a plate.

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* The images of all three men are on five bank notes: Pittsfield Bank, MA $50; Safety Fund Bank, Boston, MA $3; Commercial Bank of Troy, NY $3; East River Bank, NYC $3; Bank of Yanceyville, NC $20.

Until the early 1800s, when Jacob Perkins invented a method of hardening steel, copper continued to be the primary medium for engraving, including plates for bank notes. Hardened steel proved much more durable than copper, and the engraved images could be reengraved much more successfully than could the softer metal. Steel intaglio engraving is the most difficult type of engraving for the counterfeiter to imitate.

There are two additional basic types of printing. Printing from ink that is carried on a raised surface is called relief printing; if ink is carried on the surface itself, it is referred to as planographic or surface printing. There are differences within these printing methods. These and other printing methods are discussed and illustrated extensively in Gascoigne.

Relief printing is the oldest method. The earliest known book printed in relief was produced by Wang Chieh, a Chinese Buddhist monk, on 11 May 868 (Gascoigne 1a). It was printed by woodcut, which has all the non-printing areas cut away. The hand rubber stamp is the simplest example of relief printing.

In surface printing, ink is applied to the printing surface by dabber or roller. When a considerable amount of pressure is used, the printing source is pushed into the paper. Ink squash outside the printed area is often visible when magnified. On U.S. currency, as an example, serial numbers, U.S. Treasury and Federal Reserve seals are surface printed.

The most common type of planographic printing is lithography, based on the natural aversion of oil to water. Certain portions of a semi-absorbent surface will be made receptive to ink while the portions to remain blank will reject the ink. The lithographic surface is ready when a greasy image makes contact followed by additional processes. After the surface is dampened, which affects only the non-printing areas, ink is applied by a roller. The dampened portions reject the ink. When the printing surface comes in contact with the inked surface the image is transferred. When this method is extended to include offset printing, a roller passes over the inked surface and transfers it to the printing surface. In this instance the original image need not be reversed, the roller picks up the image in reverse. Portions of a large number of world bank notes are printed from a variation of this method. A photolithographic plate is made from an engraved plate; this is used to make an offset print.

Until well into the 20th century most bank notes from around the world, especially higher denominations, were intaglio-engraved and printed. Most world stamps were produced the same way. But, other less expensive methods became acceptable and, due to time and cost, necessary. The decline in commercially-engraved work began soon after the invention of photography in the 1840s. One-hundred years later the number of engravers capable of doing intaglio work had dropped considerably. Today, there are probably no more than a dozen picture and portrait engravers employed as intaglio, security engravers in the United States. Their current apprenticeship lasts about 10 years.

The New York Stock Exchange continues to require a human figure with engraved features on all certificates of companies listed. Due to increasing costs, less original engraving is done, and more bank note company stock images are adapted for a variety of uses.

All circulating bank notes issued in the United States since 1861 have been intaglio-engraved, but today it is an exception when a U.S. postage stamp receives the same treatment. Commemorative stamps are usually produced by the multicolor-offset process, a combination of offset, intaglio and, most often, the photogravure method.

Photogravure (a process that transfers ink from depressions in a plate that is made photographically), and other less expensive printing methods will, to the chagrin of many collectors, remain with us. We will also see more designs created with the assistance of computers and lasers. Here, however, the designers of bank notes and postage stamps, and the engravers who execute these designs in intaglio, are the heroes to be recognized.

Highlights in the development of paper, bank notes and postage stamps

B.C.

2200 The Prisse manuscript on papyrus, perhaps the oldest document.

Highlights

(continued)

400-300	By this time silk was used for a writing surface, but, due to the expense, wood and bamboo remained in use.
A.D.	
105	Papermaking was announced by Ts'ai Lun in China; it was made from fishnets, hemp, rags and a variety of barks including mulberry.
142	"I send you the works of the Philosopher Hsu in ten rolls – unable to afford a copy on silk I am obliged to send you one on paper" (Ts'ui Yüan). This was reported by Yu Shih-nan (558-638). Paper had become cheaper than silk in less than 40 years.
150	Papermaking was improved by Tso Tzu-yi.
250-300	Sir Aurel Stein discovered paper from this period.
450	In Eastern Turkestan paper replaced other materials for calligraphy.
610	Papermaking was introduced in Japan.
707	Paper was introduced in Mecca.
770	The *dharani* of Empress Shotoku of Japan, the earliest example of text printing on paper.
804	Banker's drafts were introduced in China. This "flying money" could then be cashed in other cities.
969	Earliest known reference to playing cards in China.
998	By this date a total of 1,130,000 tiao in paper money circulated in China. One tiao, or kuan, equaled a string of 100 or 1,000 cash coins, depending on the province.
1041-1049	Movable type was invented in China by Pi Shêng. The numerous language characters did not lend themselves to this invention.
1154	Paper money and bank note paper mills were introduced by Jin Dynasty.
	William Rubruk, a French priest, returned from Mongolia and reported the use of paper money to Louis IX.
1154	First use of paper in Italy.
1228	First use of paper in Germany.
1276	First paper mills in Italy.
1277	Kublai Khan abolished metal currency in favor of paper money.
1282	First European use of a watermark was introduced in Italy.
1294	First paper money issued in Tabriz, Persia.
1298	Marco Polo returned from China with examples of paper money.
1309	Paper money first used in England.
1319-1327	Paper money secured by precious was metals was introduced in Japan.
1403	Movable type was made in Korea. Surviving examples in Korea.
1409	Korea. Earliest surviving book printed from movable type.
1423	First block printing in Europe, using Chinese methods.
1450-1455	Johann Gutenberg printed 42-line bible.
1491	First paper mill in Poland.
1495	John Tate, from Hertfordshire, started first paper mill in England.
1591	First paper mill in Scotland.
1636	Plague reached England from rags imported by paper makers.
1638	The first printing press in North American was installed by Stephen Daye in Cambridge, MA.
1661	Notes of credit issued by Stockholms Banco in Sweden, the first in Europe. Earliest surviving example is dated 1662.
1690	The Massachusetts Bay Colony issued first government paper money in Colonial America.
	William Rittenhouse and William Bradford established the first paper mill in Colonial America in Roxborough, PA.
1728	First paper mill in Massachusetts; it was located in Milton.

Highlights

(continued)

1744	First paper mill in Virginia.
1758	First counterfeits of English bank notes.
1776	On Jan. 4, Stephen Crane sold thirteen reams of "money paper" to Major Fuller and John Brown. Paul Revere paid for the paper in 1778.
1788	On June 20 Benjamin Franklin addressed members of the American Philosophical Society on the subject of papermaking and the Chinese.
1801	Zenas Crane established a paper mill in Dalton, Massachusetts.
1804	Aloys Senefelder (1771-1834) was the first to perfect lithography.
1807	An advertisement in Canada, by Gen. Walter Martin, a paper mill owner included: *"Sweet ladies, pray be not offended,* *Nor mind the jest of sneering wags;* *No harm, believe us, is intended,* *When humbly we request your rags."*
1812	First U.S. Treasury notes were printed.
1818	From 1812-1818, bank notes totaling 131,331 pieces circulated in England.
1819	To deter counterfeiting, Sir William Congreve (1772-1828) submitted watermark experiments to the Bank of England.
1840	The watermarked, "penny black" first used on May 6; the first use of adhesive postage stamps.
	Congreve's method of two-color printing was introduced.
1842	First use of postage stamps in the U.S., in NYC.
1844	Zenas Marshall Crane, son of Zenas Crane, was the first in America to introduce silk threads into bank note paper.
1847	First use of federal postage stamps in the U.S.
1851	After 400 years, paper money was reintroduced in China.
	RWH&E print Canada's first postage stamps
1856	Perkin's mauve (aniline dye) used to color paper.
	British Guiana postage stamps were printed at the office of the Royal Gazette in Georgetown.
	Swedish 1855 postage stamp was printed in orange instead of blue-green.
1861	French government postage stamps were required to be made from macerated paper beaten at old stamping-mills.
	First U.S. demand notes were printed.
1862	The U.S. Bureau of Engraving and Printing (BEP), initially known as the First Division of the National Currency Bureau was established by S.M. Clark, Chief Clerk, Bureau of Construction.
	James Duthie, first engraver to be employed at the National Currency Bureau.
	First U.S. (legal tender) notes were printed by ABNCo and NBNCo.
1864	A paper-machine, which made "membrane" paper for bank notes and whiskey stamps, was installed in the basement of the U.S. Treasury Building. The noxious odors and possible health threat brought this project to an end; the machine was removed in 1869.
1866	The Willcox Paper Mill in PA discontinued hand-made paper.
	"Batonné," "quadrille carré," and "oblong quadrille" paper were first used in the Guadalajara postage stamp issue (1866-1867).
1867	"Pelure" paper was used for the first time to make postage stamps in the Dominican Republic.
1869	J.M. Willcox & Co. received contract to make paper for fractional currency and U.S. notes. Contract ended on 31 August 1877; a government stockpile of paper was on hand.
	U.S. Post Office Dept. issues its first bicolor stamp.

Highlights
(continued)

1876	A government mill to make paper for Japanese currency and bonds was established.
1877	BEP was authorized to print all internal revenue stamps.
1878	About this time the Bureau of Engraving and Printing installed equipment that would repulp retired, soiled currency. This method of destruction was discontinued in 1943 in favor of incineration.
1879	Crane & Co. received contract to make paper for U.S. paper money.
1880	350,000 tons of rags were used annually to make U.S. currency.
1887	Oct. 1, the preparation of all U.S. paper money was to be done at the BEP.
1894	All U.S. postage stamps were to be prepared at the BEP.
1898	Trans-Mississippis, the first set of commemorative stamps, were printed at the BEP.
1908	Postage stamps in coils were in use by this time.
1912	On May 29 a currency laundering machine was installed at the BEP.
1914	On June 30 the first stamps (1911, 2¢) printed on a rotary press.
1918	Currency laundering machine discontinued.
1926	By July 1 all regular postage stamps 10¢ and under were printed on a rotary press.
1929	Stamps were produced from first web-fed intaglio press at BEP.
1939	A postage stamp electric-eye perforating machine was introduced at BEP.
1941	On July 1, the first of 8,100 million war savings stamps were produced.
1943	Allied military currency and stamps were produced.
1953	The BEP installed first dry-print, sheet-fed rotary press.
1957	The first Giori press was installed at BEP.
1985	BEP began study for currency counterfeit deterrents.
1986	BEP celebrated 125th anniversary.
1991	BEP installed web-fed press that prints face and back of notes simultaneously. BEP satellite plant in Ft. Worth, TX began operation. BEP released $100 Federal Reserve notes with polyester threads and micro printing.
1992	BEP released first $1 notes with face and back printed simultaneously on new web-fed press. Plate location or check number on the face is deleted. Plate number on the back moved from bottom to top.

Format

WITHIN THIS TEXT you will find lists of specific engraved examples following the biographies. These subjects are listed alphabetically with the title — some are known by more than one — or description in italics. Engraved subjects are arranged by classification, i.e., U.S. Federal bank notes, foreign bank notes, bonds, stock certificates, stamps, etc.; miscellaneous items are listed last.

The date that follows individual bond and stock certificate listings represents the date the engraving was completed or the approximate issue date of the bond or certificate. United States federal bank notes and fiscal paper are identified by H, HE and HX (see abbreviations); world bank notes are identified by P and PS (see abbreviations). Illustrations of most of the listed examples can be seen in these respective sources. Stamps, identified as such, bear the Scott *design type* catalog numbers throughout.

With a few exceptions, it will be necessary to consult the section devoted to U.S. stamps in order to link specific stamps with their designers and engravers. Unless accompanied by a dollar sign, all stamp denominations are in "cents."

If a person is both artist and engraver, the examples listed, unless specified, represent artistic attributions.

Abbreviations

BANK NOTE COMPANY (BNCo) names are spelled out in their entirety when presented for the first time within separate listings; subsequent references use abbreviations from the following list. Abbreviations for states are the same as those adopted by the U.S. Postal Service.

A, AP	Scott, *Standard Postage Stamp Catalog*
ABNCo	American Bank Note Company
Art	Artist
b.	born
bd.	bond
BEP	Bureau of Engraving & Printing (once called the National Currency Bureau)
BNCA	Bank Note Corporation of America
BNCo	Bank Note Company
BrAmBNCo	British American Bank Note Company
B.T.	Bradbury Thompson
ca.	circa
CanBNCo	Canadian Bank Note Company
CD	Certificate of Deposit
CITN	Compound Interest Treasury Note
ColBNCo	Columbian Bank Note Company
consol.	consolidated
ContBNCo	Continental Bank Note Company
cp. bd.	coupon bond
CPP	Copper Plate Printer
CSA	Confederate States of America
d.	died
d	pence or penny (from denarius)
deb.	debenture
Des	Designer
DN	Demand Notes
D-S	Die-Sinker
Eng/eng	Engraver or engraved
EPJ	*The Essay-Proof Journal*
Et	Etcher
FC	Fractional Currency
FNB	First National Bank
FrBNCo	Franklin Bank Note Company
FRBN	Federal Reserve Bank Note
FRN	Federal Reserve Note
fund.	funding
GC	Gold Certificate
GLO	Geometric Lathe Operator
GVS	Gravure Stamp Ventures
H	Hessler, *Comprehensive Catalog of U.S. Paper Money*
HBNCo	Hamilton Bank Note Company
HE	Hessler, *U.S. Essay, Proof and Specimen Notes*
HLBNCo	Homer Lee Bank Note Company
HX	Hessler, *An Illustrated History of U.S. Loans, 1775-1898*
IC	Intaglio Corporation
Inv	Inventor
IBN	Interest-Bearing Note
IBTN	Interest-Bearing Treasury Notes
IntBNCo	International Bank Note Company
Ill	Illustrator
Impr.	improvement
JCC	Journals of the Continental Congress
JWF	J.W. Fergusson & Sons

Abbreviations
(continued)

KCS	KCS Industries
L-H	Lehman-Haupt (see bibliography)
LO	Lathe Operator
lg	large
LtEng	Letter Engraver
Mach	Machinist
Med	Medalist
MPC	Military Payment Certificates
Mod	Modeler
mort.	mortgage
NAD	National Academy of Design
NBCN	National Bank Circulating Note
NBNCo	National Bank Note Company
NC	Newell Colour, Inc.
n.d.	no date
NEBNCo	New England Bank Note Company
NGB	National Gold Bank Note
NorthBNCo	Northern Bank Note Company
NYBNCo	New York Bank Note Company
NYC	New York City
OrEng	Ornamental Engraver
PS	Pick, *Standard Catalog of World Paper Money*, Vol. I
Pant	Pantographer
PEng	Picture Engraver
PlPr	Plate Printer
Pr	Printer
PtEng	Portrait Engraver
Prv	Prover
reg. bd.	registered bond
RepBNCo	Republic Bank Note Company
RR	Rail Road
RW&H	Rawdon, Wright & Hatch
RWH&E	Rawdon, Wright, Hatch & Edson
Rwy	Railway
S-B	Schwan-Boling, *World War II Military Currency*
Sc, sc	Sculptor; sculpsit (L., he (she) carved (engraved) it)
SC	Silver Certificate; South Carolina when a state is designated.
ScrlEng	Scroll Engraver
ScrpEng	Script Engraver
SecBNCo	Security Bank Note Company
Sid	Siderographer (Transferrer)
sm	small
StEng	Stipple Engraver
SV	Stamp Ventures
TC	Toppan, Carpenter & Co.
TCC&Co	Toppan, Carpenter, Casilear & Co.
TN	Treasury Note
Trans	Transferrer (Siderographer)
Typ	Typographer
USBNCo	United States Bank Note Company
USBNCorp	United States Bank Note Corporation
USN	United States Note
VB	Van Buren (see bibliography)
WestBNCo	Western Bank Note Company
WestBN&ECo	Western Bank Note & Engraving Company

Biographies

A

ABBOTT, A. This transferrer was at the Bureau of Engraving and Printing ca. 1900.

ABBOTT, George A. *Trans.* b. NH 1838. He went to the Bureau of Engraving and Printing as a plate cleaner on 14 Oct. 1869; he became a transferrer in 1871. Abbott retired on 19 June 1911.

ABERNETHIE, ______. *Eng.* Living in 1785, he is identified in the *History of the Revolution of South Carolina,* by David Ramsay, M.D., as an engraver of illustrations. He engraved bills of 1 shilling 3d, & 2d, from the Charleston City Treasury; they include "Abernethie Fecit."

ACIEVARTY, Joseph. *LtEng.* He was employed at the Security BNCo in the early to mid-20th century.

ACKAMANN, H. He was in the General Engraving Division of American BNCo in 1911.

ACKERMAN, George. *LtEng.* He was employed at American BNCo between 3 May 1912 and 12 July 1934.

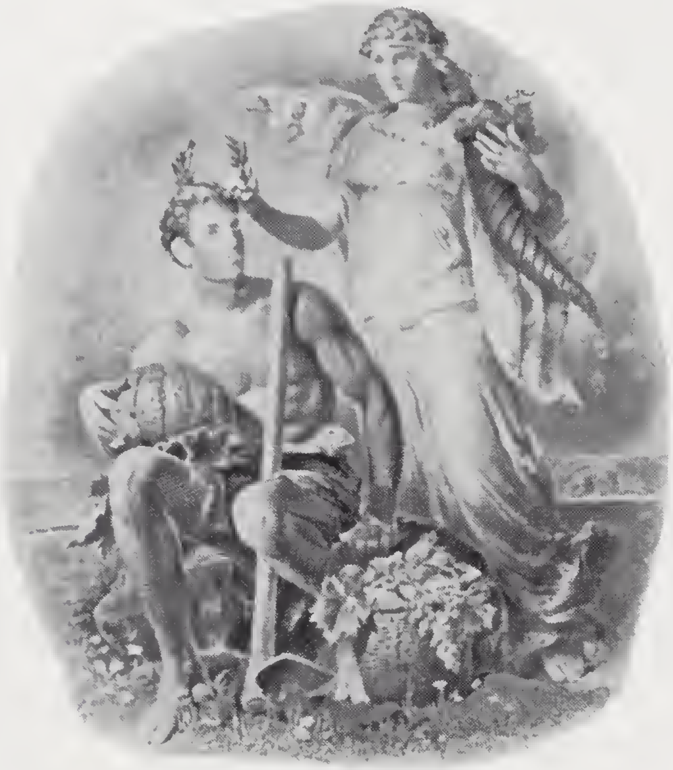
ADAMS, James. *Pr.* b. Ireland ca. 1729, d. Wilmington, DE 1792. His apprenticeship was done in Londonderry. For seven years Adams worked with Franklin & Hall. By 1760 he was printing on his own in Philadelphia but soon moved to Wilmington, DE. He printed bills for Delaware dated 1760 and 1777; he also engraved portions of the bills dated 1760.

ADAMS, William H. *Eng.* He engraved for Baldwin, Adams & Co. 1851-1854.

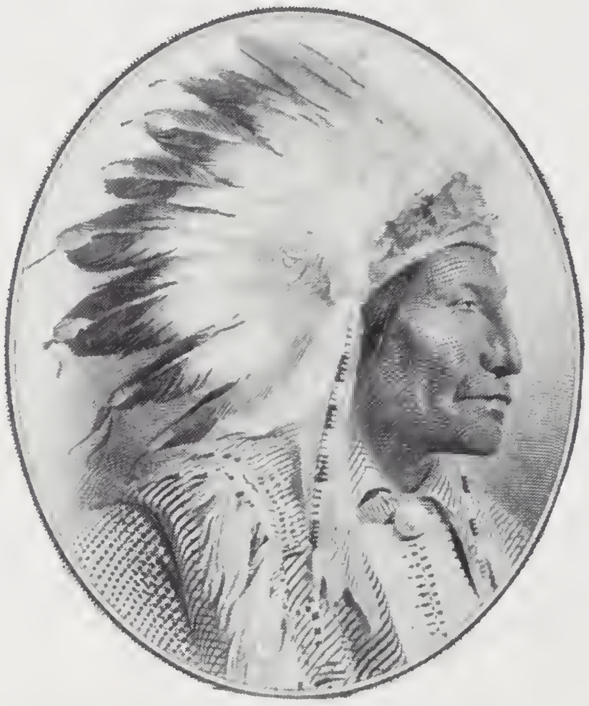
ADERENTE, Vincent. *Art & Des.* He did work for American BNCo and the Bureau of Engraving and Printing. He created *Spirit of Transportation* (figures by S. Smith; etched by A. Vogel; additions made in 1954 by J. Hay). The use of this subject is uncertain.

ADOLPH, William. *PEng & LtEng.* b. ca. 1866, d. Germantown, PA ca. 1947. He engraved at the Philadelphia office of American BNCo from 1881 until he was appointed to the Bureau of Engraving and Printing on 17 March 1892 at an annual salary of $2,500; he returned to ABNCo ca. 1933. The name Adolph is recorded for at least 12 engravings in the engraving records of the Republic BNCo. This suggests that Mr. Adolph did some work for this company while he was employed at the Bureau of Engraving and Printing. During his later years he engraved at his home in Germantown, PA and travelled to ABNCo one day each week. A contemporary of Robert Savage, Mr. Adolph never received the deserved recognition as an etcher and engraver. Just prior to his death he wrote to fellow engraver Joseph Keller, "I am spending my time quietly in the parks of Germantown sketching with a pencil in a pocket sketch-book...."

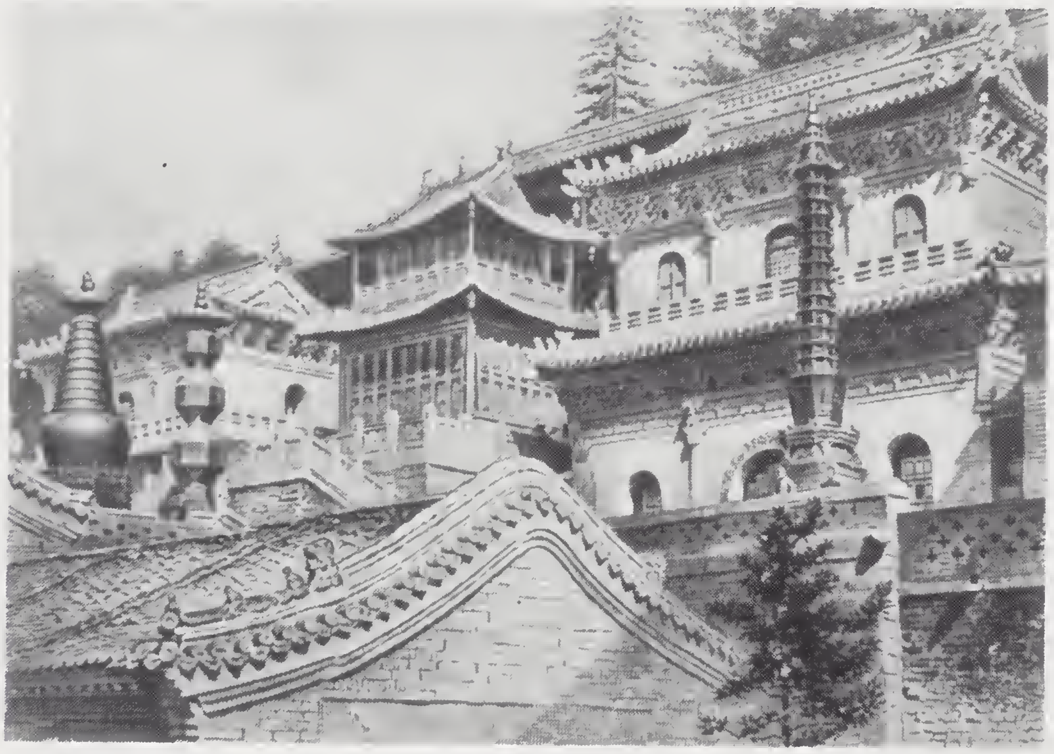
Engravings by William Adolph



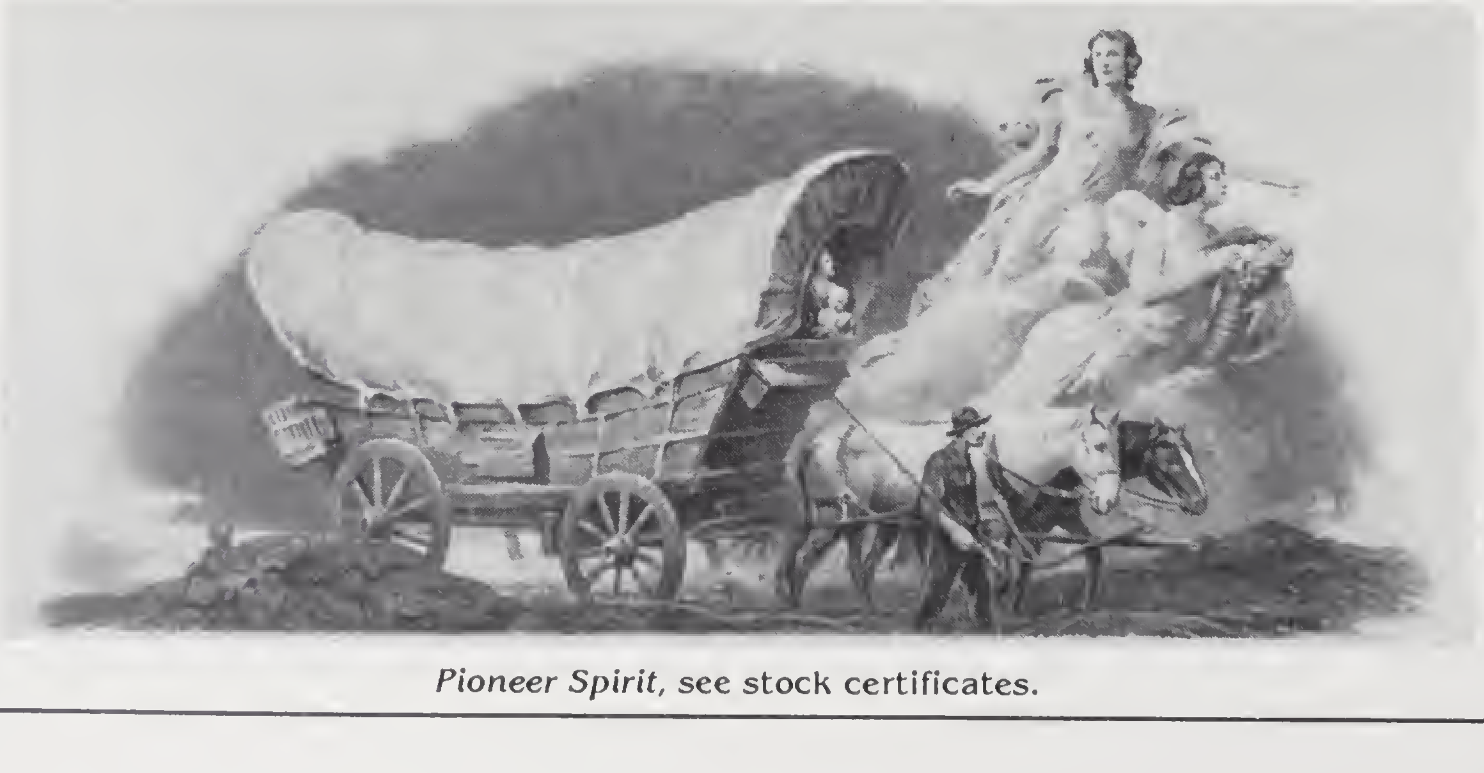
Agriculture, see stock certificates.



Chief Ouray, see stock certificates.

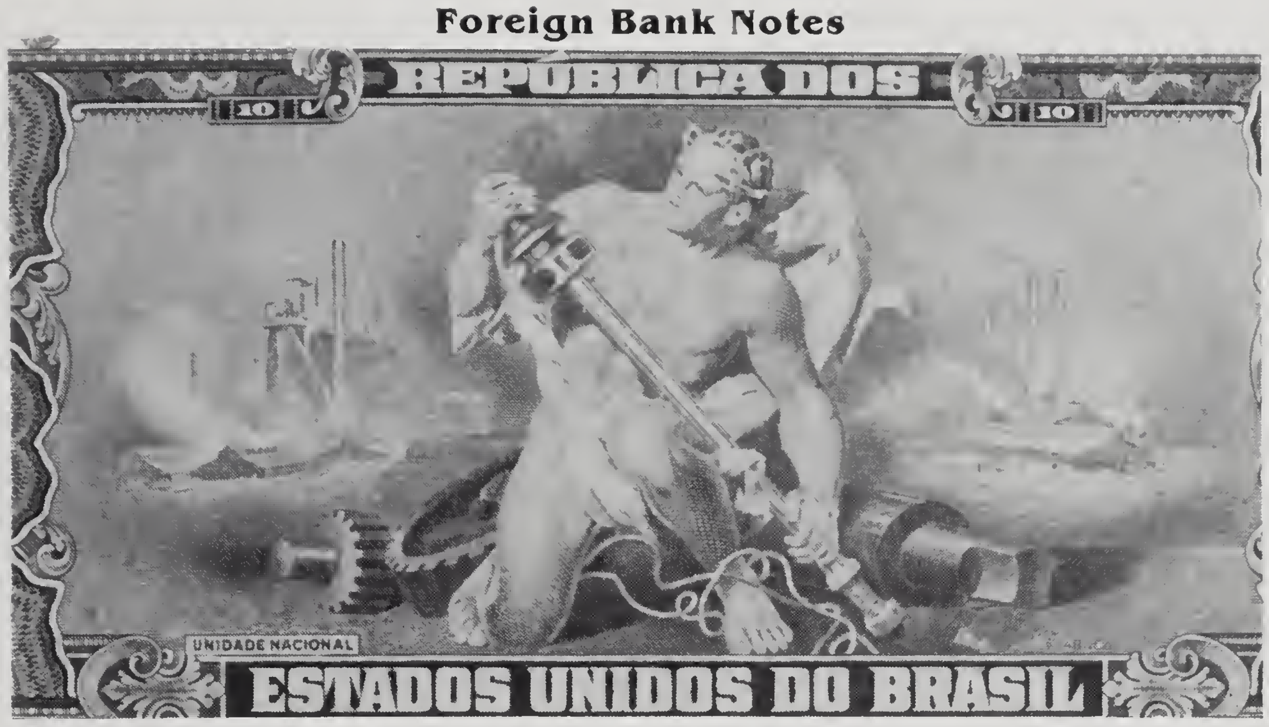


Terrace of the Five Bronze Pagodas, use uncertain.



Pioneer Spirit, see stock certificates.

Foreign Bank Notes



Brazil

Unidade Nacional (etched by H. Osborn), 10 cruzeiros (back), P167.

Canada

Beique, Senator F.L., $5-$100 (left side), PS711-715.

Rolland, J.B., $5, PS919 & $10, PS920.

Roy, Charles A. (eng. with R. Savage), $5, PS921 & $10, PS922.

Vaillancourt, J.A. (eng. with R. Savage), $5, $10 & $20 (left side), PS812-814.

Colombia

Santander, F. de P., 100 pesos, P366.

Cuba

Betancourt, S.C. (eng. with W. Ford), 500 pesos, P83.

El Salvador

Arce, M.J., 10 colones, PS205.

Greece

Alexander the Great at Issoi (sarcophagus in Constantinople), 50 drachmai, P66.

Coins, 25 drachmas, P74.

Demeter-Tripotolemas & Kore, 100 drachmai (back), P76.

Mexico

de Allende, 50 pesos, P718.

Juarez Monument, 20 pesos, PS687.

Romania

Carol, King of Romania, 500 lei, P43-44A.

Venezuela

Female, 100 bol., PS179.

Corporate Bonds

Electricity, Arkansas Natural Gas, $500, gen. mort. 6% cp. bd. (1916).

Male Allegory: Central States Electric Co. (1925); Penn Ohio Edison Co. (1926).

Pioneer Spirit (eng. with L. Delnoce & S. Smith): Northern Pacific Rwy (1945); Oregon, Washington Railroad & Navigation Co. (1944).

Science, Labor & Manufacturing (finished by W. Adolph): Brooklyn Union Gas Co. (1930); General Cable Corp. (1928) (both cp. bds.).

Sower, The (art by A. Foringer): Commonwealth of Australia (1927); Prov. of Buenos Aires (1928).

Washington, George, Virginia Carolina Chemical Corp., $500 sinking fund, 7½% gold cp. bd. (1922).

Wheel, Philadelphia & Reading Coal & Iron Co. (1923).

Stock Certificates

Agriculture (art by A.E. Foringer), cp. bds, 1929: Rep. of Poland (Silesia); Romania.

AT&T symbol (man on globe) on company stock certificate.

Aviation (woman holding plane by A.E. Foringer), United Aircraft (1934).

Chief Ouray, Potash Co. of America.

Female and Two Men (on locomotive), Atlanta, Birmingham & Atlantic Rwy. (1920s).

Figurale Compositionen: Artloom Corp.; Belding Bros. (1925).

Locomotive (people in foreground), Seaboard Air Line Rwy, (1906).

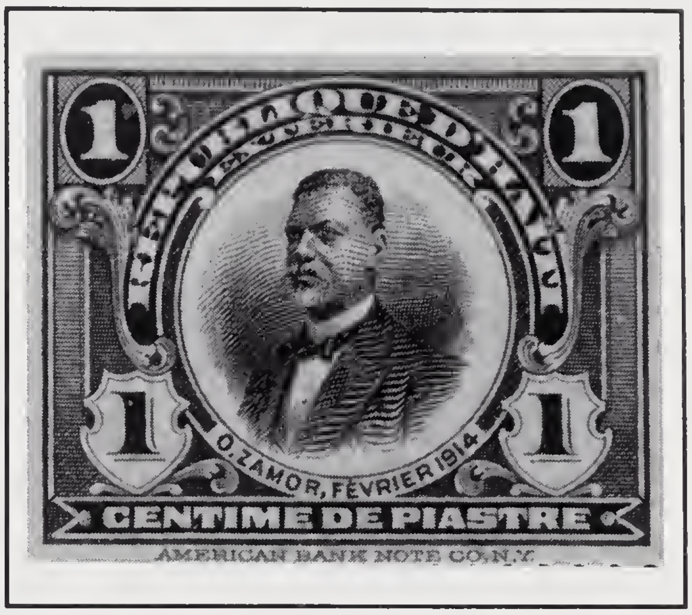
Pioneer Spirit (eng. with L. Delnoce & S. Smith): INB Financial Co. (1989); Indiana National Corporation (1977); Pacific Power & Light Co. (1965); RKO Pictures (1950).

Science and Manufacturing (background by L. Delnoce, Jr.), Libby-Owens-Ford Co.

Theory & Practice (art by Alonzo Foringer): Great Atlantic & Pacific Tea Company (1925); General Mills, Inc. (1928).

Victory and Justice, Baltimore National Bank.

Stamps & Miscellaneous



Haiti
Augeste, T., 7¢, A37.
Commerce, 25¢, A41.
Zamor, O., 1¢, 2¢ & 10¢, A35.

Nicaragua
Jerez, Maximo, 10¢, A31.

Chief Ouray, Wells Fargo & Co. travelers check (RepBNCo).

U.S. Capitol, U.S. Senate Chambers pass, ca. 1800.

ADRIAN, F. *Sid.* He was employed in the Transfer Division of American BNCo in 1911. Later he moved to the Bureau of Engraving and Printing where he was employed as late as 1951.

AHEARN, William. *Des.* He was employed at American BNCo from 26 Jan. 1891 until July 1934.

AITKEN, R. *Pr.* b. Dalkeith, Scotland 1734, d. Philadelphia July 1802. He was in Philadelphia in 1769 but returned to Scotland the same year. Aitken came back to Philadelphia in 1771 and resumed bookbinding and book selling. In 1774 he became a printer and was respected for his work. R. Aitken & Son printed notes dated 1793 for the Delaware & Schuylkill Navigation Co. in Philadelphia. Aitken's daughter Jane continued his printing business when he died.

AKIN, James B. *Art & Eng.* b. South Carolina 1773, d. 18 July 1846. In 1804 he was working in Salem, MA; the following year Akin moved to Newburyport to engrave for Jacob Perkins. In 1808 Akin moved to Philadelphia where, in addition to doing book illustrations, he was listed in the city directories, at various times as, designer, druggist, eating-house keeper and draftsman for patents. Aiken engraved a medal for the Merrimack Humane Society.

AKIN, Mrs. Between 1806-1808 she engraved membership certificates in Newburyport, MA. She probably was the wife of James B. Akin.

ALDRICH, Wilson H. *LtEng.* He was employed at American BNCo between 2 Sept. 1908 and 12 July 1934 with the exception of two years of service during World War I. He joined the Northern BNCo in 1946.

ALFSON, Howard A. *Sid.* He was with the Western BNCo in 1892; organizer of Lincoln BNCo., Chicago in 1914; vice-president of Columbian BNCo in 1915.

ALEXANDER, Deborah J. Colletti. *LtEng & ScrpEng.* b. Mineola, NY, 29 Jan. 1952. She was educated in the Uniondale (NY) Public Schools. In 1974 Mrs. Alexander received her B.A. in Fine Arts from St. Lawrence University in Canton, NY; there she studied under instructors S. Bailey, G. Berard, C. Fowler, H. Holladay and M. Lowe. She also attended the School of Visual Arts in NYC, The New School (Parson's School of Design) in NYC, and the Philadelphia College of Art. In 1975 Mrs. Alexander began her apprenticeship at American BNCo under R. Everett, V. Seiling and R. Tucker. Five years later she moved to United

States BNCo where she remained until 1989. The following year she joined the Bureau of Engraving and Printing. Her work can be seen on the traveler's checks for Citicorp, and American Express (Japanese yen).

ALLEN, Jack. This engraver was an employee of the Homer Lee BNCo ca. 1900.

ALLEN, John. *Pr.* b. England. He printed bills dated 1702 for Massachusetts from a rolling press made by John Brewer. Allen published the following advertisement ca. 1708: "These are to give Notice, that there lately came from London a Printing Press, with all sorts of good new Letters, which is now set up in Pudding lane near the Post-Office in Boston for publick use: Where all persons that have any thing to print may be served on reasonable terms" (Thomas 87).

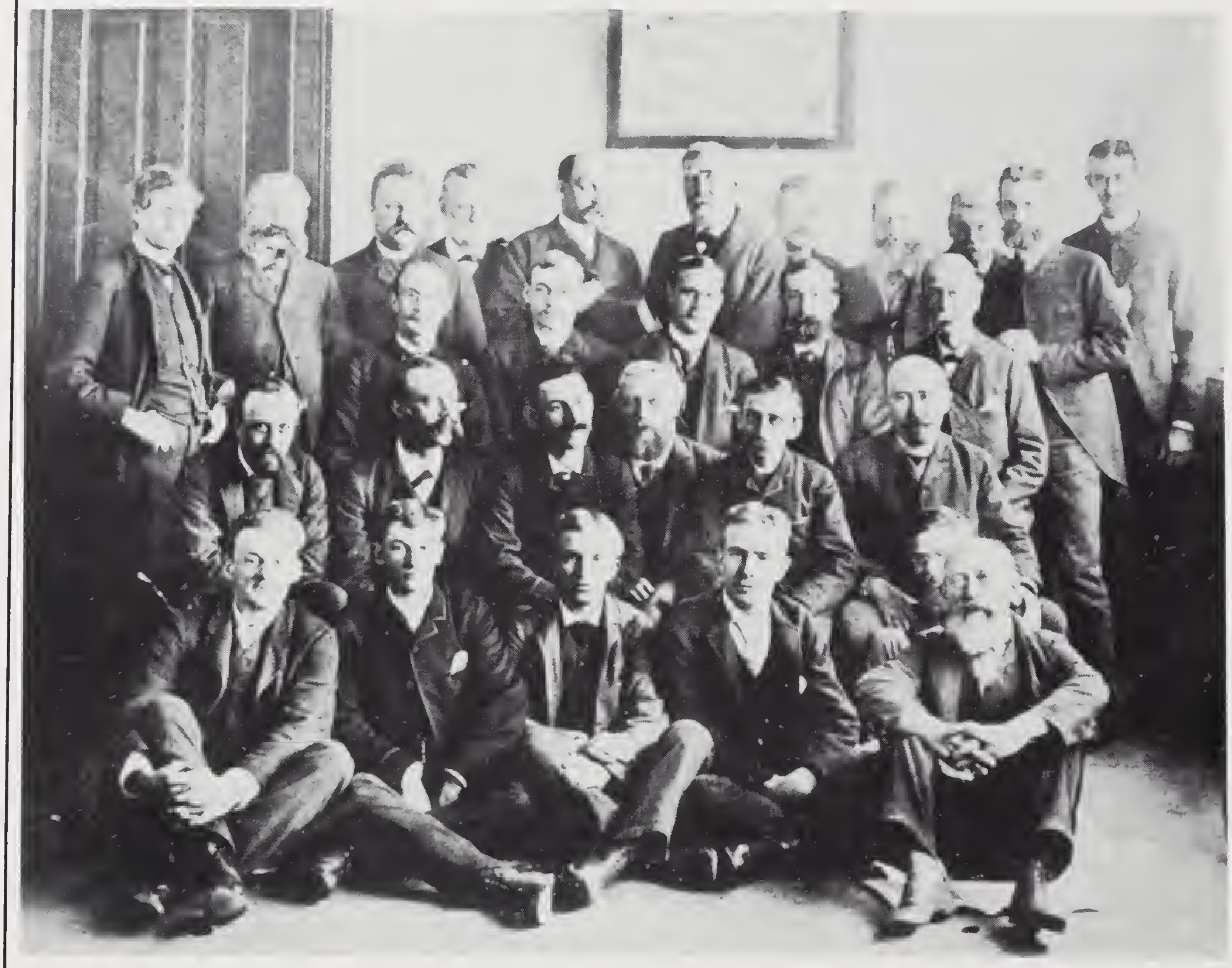
ALLEN, Silas R. *PtEng.* He did work for American BNCo between 5 Oct. and Dec. 1922, when he returned to Ottawa. The *Locomotive* on the bond coupons for the Wabash Rwy Co. (1930) and the Chicago Union Station Co. (1940) is his work.

ALTSCHIL. *Trans.* (see Amendt.)

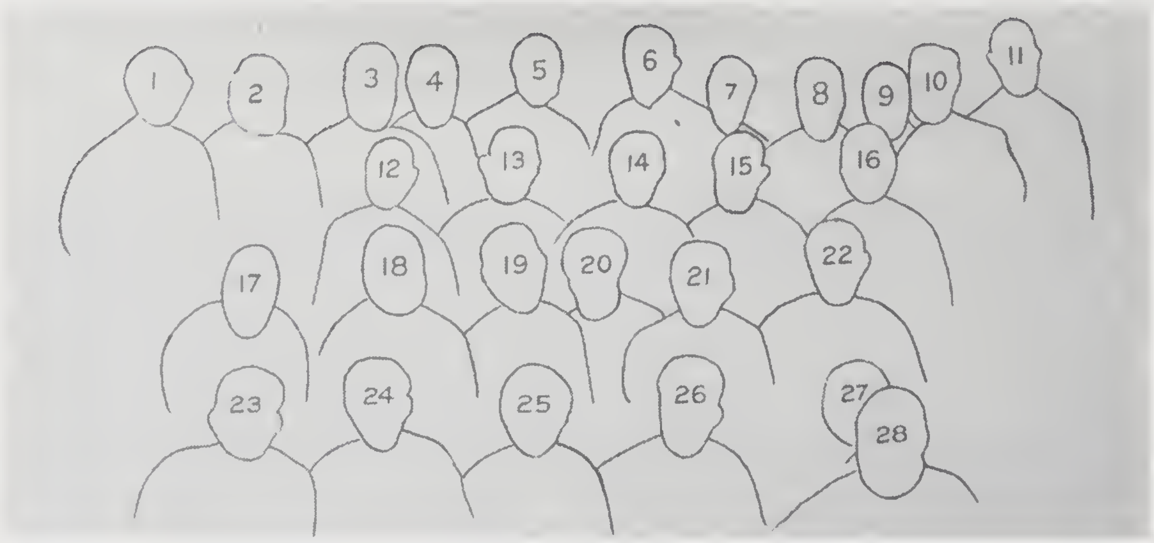
AMENDT, Phillip. *Trans.* This name, and others, appears on the border of some CSA notes. "... these imprints were engraved on the plates as a required practice in order that responsibility for bad work could be easily established. Further, Dr. Ball adds '...such imprints are rare from the Dec. 2, 1862, issue on, as the names were engraved on the selvage areas and therefore cut off preparatory to issue'" (Freeman and Larkin).

AMERICAN BANK NOTE CO. In 1858 seven engraving firms united to form the Association of ABNCo: Danforth, Perkins & Co.; Toppan, Carpenter & Co.; Draper, Welsh & Co.; Bald, Cousland & Co.; Rawdon, Wright, Hatch & Edson; John E. Gavit; and Wellstood, Hay & Whiting. Jocelyn, Draper, Welsh & Co. of NY, a branch of Draper, Welsh & Co. of Philadelphia included an American BNCo. imprint on notes produced between 1854-1858. ABNCo became a Consolidated Company in 1879. During its history this company has prepared bank notes and security paper for 115 countries, and postage stamps for 25 countries including the U.S. In 1896 ABNCo organized the Canadian BNCo in Ottawa to execute Canadian bank notes and stamps. In 1903 the British firm of Bradbury, Wilkinson & Co. Ltd. was acquired; this company was sold to Thomas de la Rue ca. 1987. IntBNCo, the parent company of ABNCo, was purchased by United States BNCorp in Feb. 1990. The ABNCo facilities in Suffern, NY are now occupied by Francois-Charles Oberthur Fiduciare, a French printing company who operates there under the name of Bank Note Corporation of America.

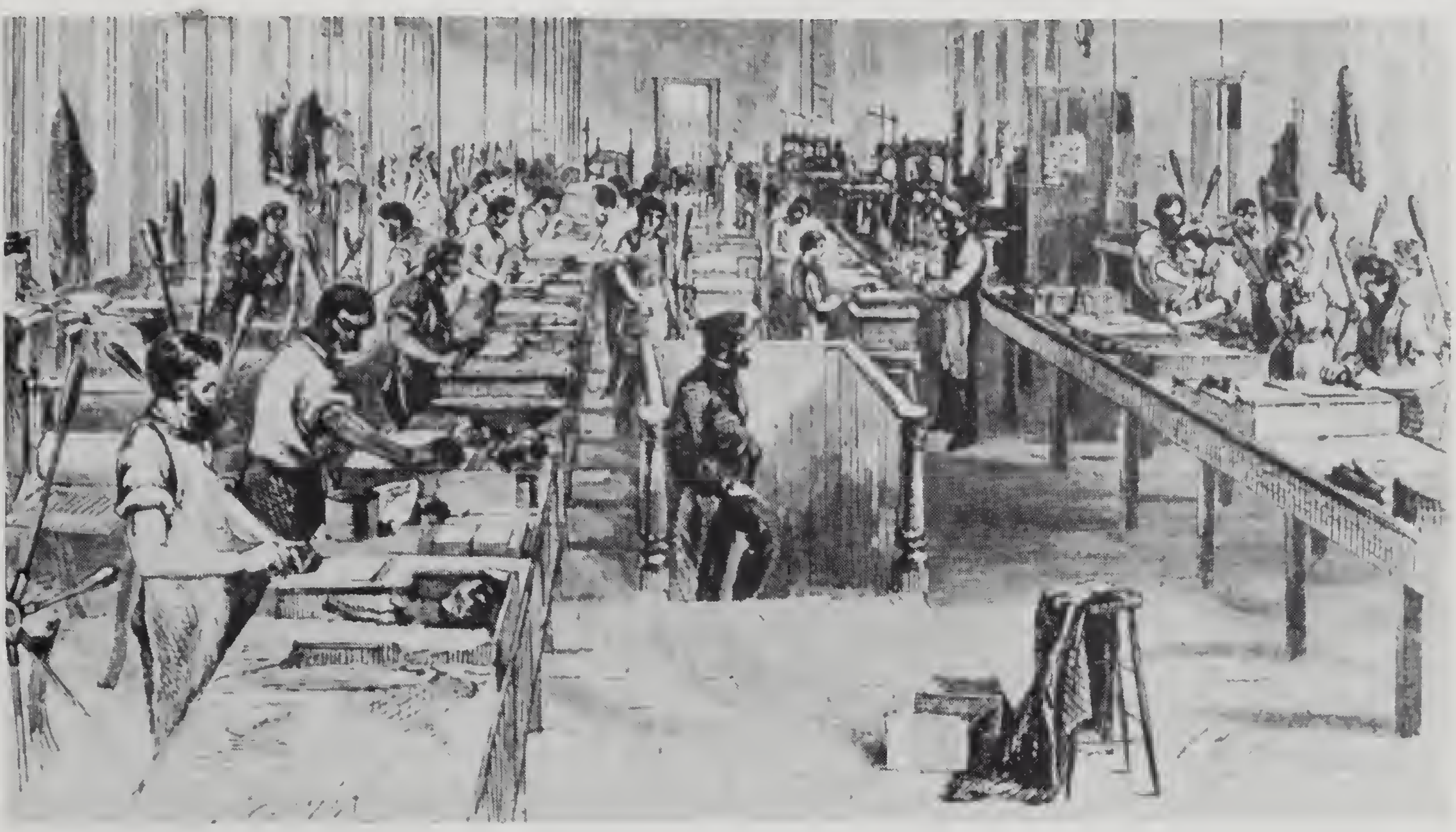
One of many different American BNCo advertising notes.



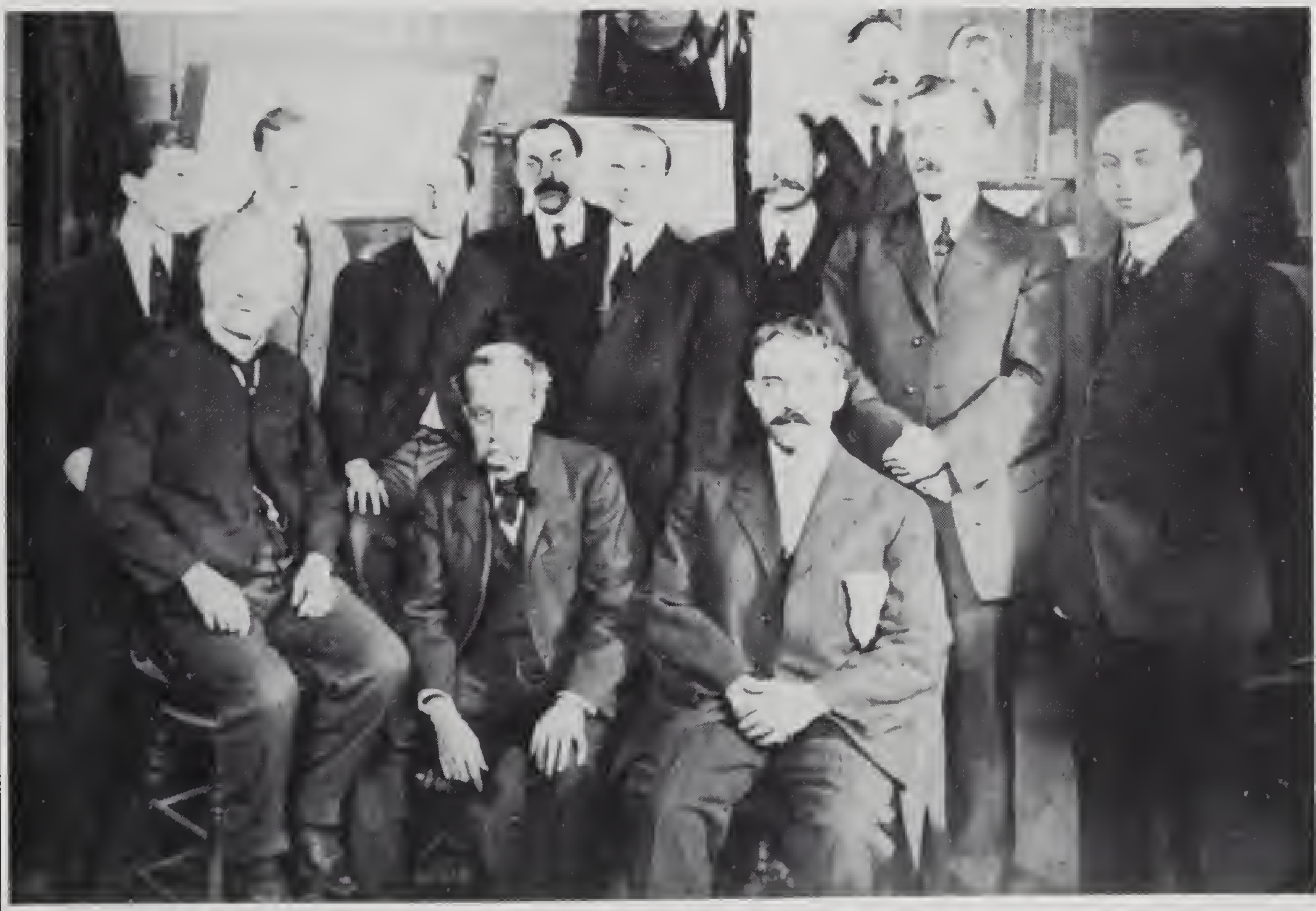
American Bank Note Co. engravers about 1876.



Individual identification: **1** Alfred Jones, **2** W.F. Costenbader, **3** J.O. Molander, **4** A.W. Cunningham, **5** D. Ronaldson, **6** Charles Harrison, **7** John Doe, **8** Butler Packard, **9** Peter Buchanan, **10** George Sinclair, **11** James Doe, **12** James Dunn, **13** William A. Kritter, **14** Alfred Major, **15** George Holding, **16** Rawson Packard, **17** George Downs, **18** Charles Skinner, **19** Frank Emerson, **20** Joseph Claxton, **21** D. Farrington, **22** E.D. Bourke, **23** Edward Steimele, **24** A. McCosker, **25** F. Beadle, **26** W. Delnoce, **27** J. Kennedy, **28** Christian Rost.

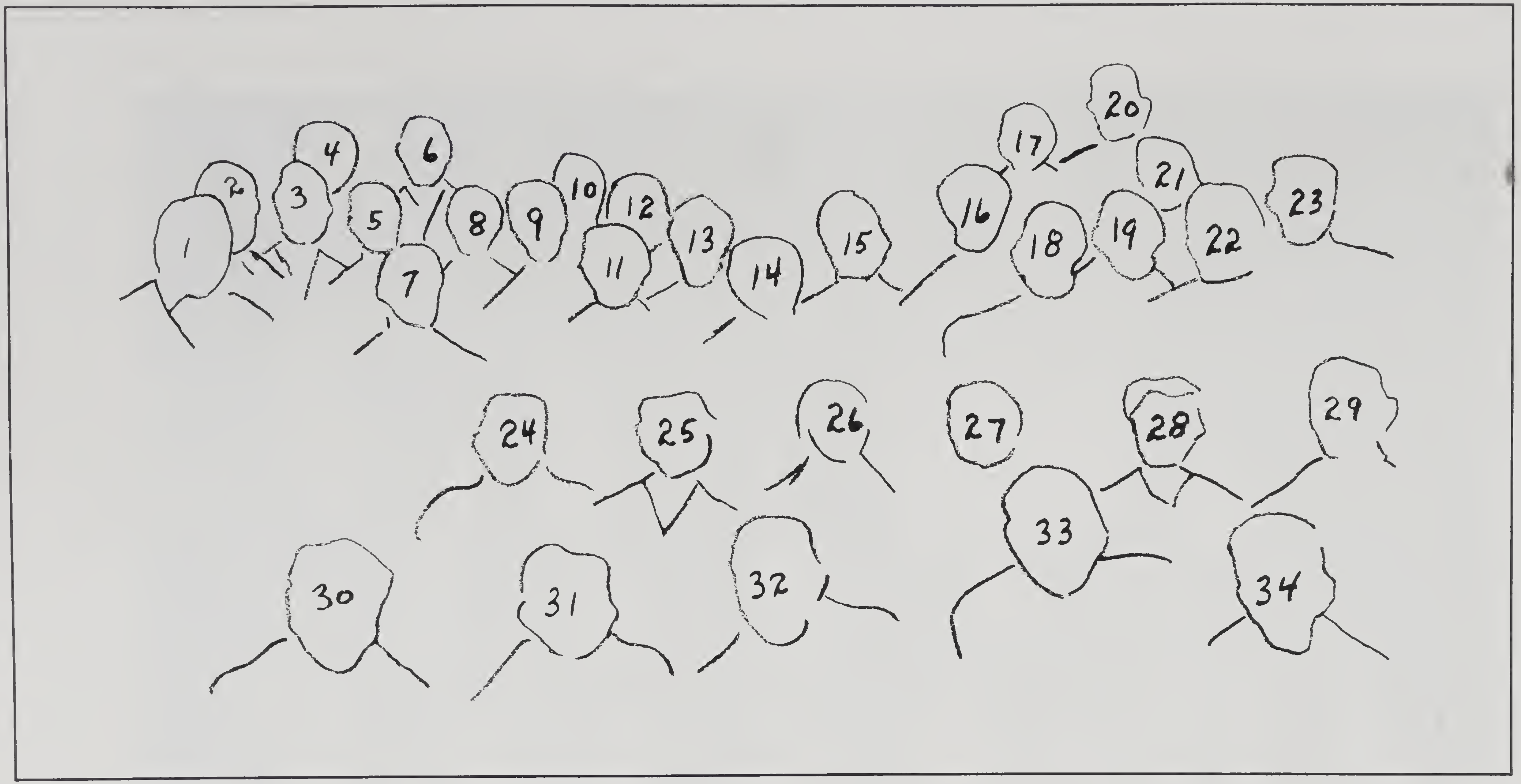


American Bank Note Co. printing department at the Merchant's Exchange Building about 1875. This scene was drawn by H.W. Herrick and engraved by A.W. Jocelyn.



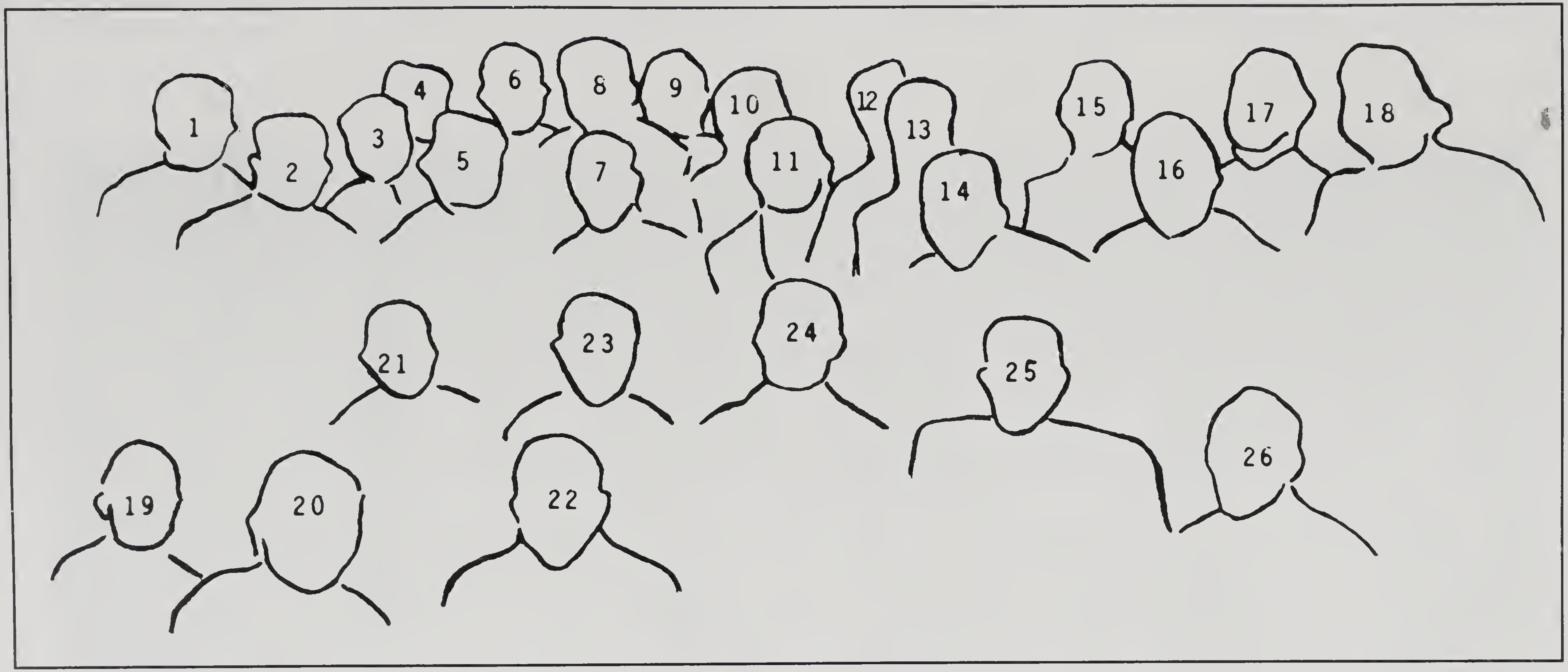
American BNCo engravers ca. 1910. Standing, left to right: Harold Osborn, George Hanweber (scroll eng.), Edwin Gunn, Elie Loizeaux, Clifford Dawson, Alexander Cordukes (scroll eng.), Louis Delnoce, William Brown, Harry Dawson. Seated, left to right: Charles Schlecht, unidentified, Robert Savage.

American Bank Note Co. employees in 1945.

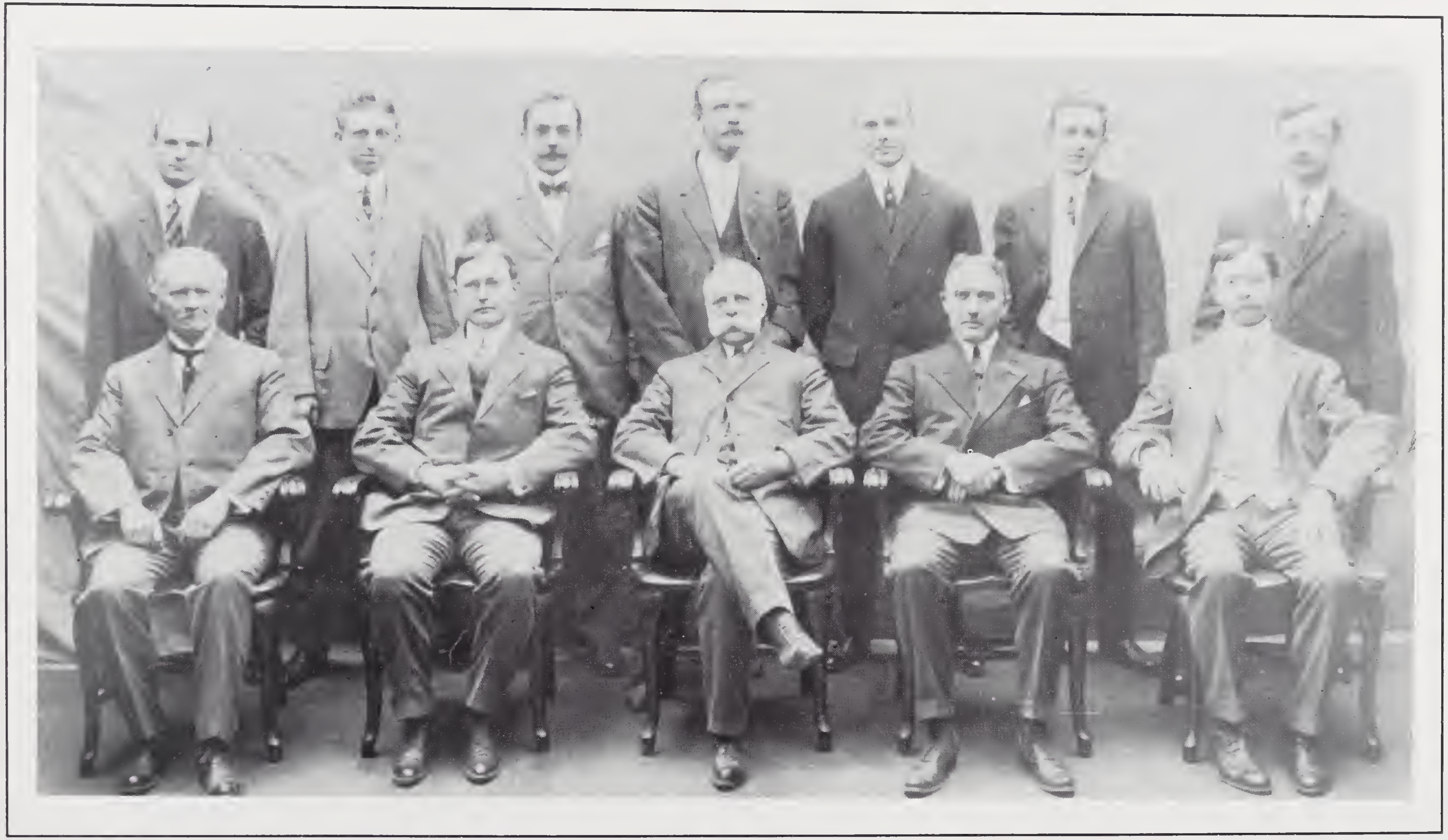


Individual identification: **1** Elie T. Loizeaux, **2** James Welby (D), **3** James Simpson, **4** Walter DeLong (printer), **5** Joseph Keller, **6** Fred Potter (D), **7** Philip Frey (D), **8** Edward Archer, **9** Arthur Vogel, **10** Warrel Hauck, **11** Edward Connely (D), **12** William Jung, **13** John Hay, **14** Charles Mack (D), **15** Arnold Reece (D), **16** Harry Schoen (D), **17** Frank Wabst, **18** unidentified, **19** William F. Ford, **20** Earl Hanson (D), **21** Leo Kauffmann, **22** Frank Chadwick, **23** John Neenan (D), **24** Elaine Rakow, **25** May Cahill, **26** Pat Ford, **27** Laura McDevitt, **28** Elsie Graft, **29** Chris Helmset, **30** Edwin Cranz, **31** William Scherer, **32** Alex Fero (D), **33** Gottlieb Haas, **34** Fred Buckes (D). (D = Designer)

Bank Note Engravers Guild of New York, Local 78, 20th anniversary dinner, 16 April 1959.



Individual identification: **1** Harry Schoen (D), **2** Joseph Poveromo, **3** J. Scherer, **4** Edward Anderson, **5** John Blaho, **6** George Holder, **7** Howard Mildeer, **8** Edward MacAvoy, **9** A. MacMillan, **10** W. Coleran (attorney), **11** Arthur Sissner, **12** Kenneth Guy, **13** George Hauck, **14** Harold Archer, **15** William Honig, **16** Carl Irmscher, **17** James Welby (D), **18** Earl Hansen (D), **19** Edwin Cranz, **20** Rudolph Purdock (D), **21** Henry Georg (D), **22** Charles Marshall, **23** Alex Fero (D), **24** Ben Mazza (Int. president from Tiffany), **25** Charles Kirsten, **26** John Wallace. (D = Designer)



Twelve premiere American Bank Note Co. engravers at Trinity Place about 1910. Standing, left to right: Clifford Dawson, George Hanweber, Elie Timothée Loizeaux, William J. Brown, Harry P. Dawson, Harold Osborn, and Louis Delnoce. Seated, left to right: Charles Schlecht, Edwin Gunn, Charles Skinner, Robert Savage, and Alexander Cordukes.

Antecedents of American Bank Note Co.

(The antecedents were compiled by Foster Wild Rice and were printed in *The Essay-Proof Journal*, No. 72; they are reprinted here with permission of The Essay-Proof Society.)

(Designers and engravers names are printed in italics.)

I. DANFORTH, PERKINS & Co., New York, Philadelphia, Boston and Cincinnati.
II. TOPPAN, CARPENTER & Co., New York, Philadelphia, Boston and Cincinnati.
III. DRAPER, WELSH & Co., Philadelphia, with Jocelyn, Draper, Welsh & Co., New York.
IV. BALD, COUSLAND & Co., New York and Philadelphia.
V. RAWDON, WRIGHT, HATCH & EDSON, New York, Cincinnati, New Orleans and Montreal.
VI. JOHN E. GAVIT, Albany, NY.
VII. WELLSTOOD, HAY & WHITING, New York and Chicago.

I

DANFORTH, PERKINS & CO.

JACOB PERKINS: Newburyport, MA (1790-); Boston, MA (1812-); Phila., PA (1815-1819).
GIDEON FAIRMAN: Albany, NY (1792-); Newburyport, MA (1803-); Phila., PA (1811-).
WILLIAM CARR, Phila., PA: 118 S. Front St., 87 S. 2nd St., (1800-1809).
JOHN DRAPER, Phila., PA: 87 S. Front St. (1801); 446 N. 2nd St. (1804).
CARR & DRAPER, Engravers & Printers, Phila., PA, 3 Norris Pl. (1809-1810).
William Carr, John Draper.
GEORGE MURRAY, Phila., PA, 398 Race St. (1807-).
MURRAY & DRAPER, Book Plate & Bank Note Engravers. Phila., PA (1810-).
George Murray, John Draper.
MURRAY, DRAPER, FAIRMAN & CO., Phila., PA, 47 Sansom St. (1811-1818).
George Murray, John Draper, Gideon Fairman, Jacob Perkins (1815-1818).
Asa Spencer & Charles Toppan performed work but were not employed here.
ASA SPENCER, Newburyport, MA (1819-).
ASA SPENCER, London, England (1819-1823).
CHARLES TOPPAN. London, England (1819-1823).
MURRAY, FAIRMAN & CO., Phila., PA (July 1818-), 47 Sansom St. (Nov. 1822).
George Murray (d. 2 July 1822), *Gideon Fairman* (abroad 1819-1822).
FAIRMAN, DRAPER & CO., Engravers. Phila., PA, 45-47 George St. (1823).
ASA SPENCER, Engraver, Phila., PA: 43 Zane St. (1825-1832); 50 George St. (1833).
FAIRMAN, DRAPER, UNDERWOOD & Co., Phila., PA, 47 Sansom St. (1823-1827).
Gideon Fairman, John Draper, Thomas Underwood.
DRAPER, UNDERWOOD & CO., Phila., PA, 47 Sansom St. (1828-1833).
John Draper, Thomas Underwood.
DRAPER, UNDERWOOD & SPENCER, Phila., PA, 47 Sansom St. (1833-1835).
John Draper, Thomas Underwood, Robert Bald, Asa Spencer.
NYC, 14 Wall St., N. & S.S. Jocelyn, Agents.
UNDERWOOD, BALD SPENCER, Phila., PA, 47 Sansom St. (1835-1837).
Thomas Underwood, Robert Bald, Asa Spencer.
NYC, 14 Wall St., N. & S.S. Jocelyn, Agents.
UNDERWOOD, BALD, SPENCER & HUFTY, Phila., PA (July 1837-1843), Exchange Bldg.
Thomas Underwood, Robert Bald, Asa Spencer, Samuel Hufty, Samuel Stiles.
UNDERWOOD, BALD, SPENCER & HUFTY, NYC, 14 Wall St. (1837-1839). N. & S.S. Jocelyn, Agents.
DANFORTH, UNDERWOOD & CO, NYC, 14 Wall St. N. & S.S. Jocelyn, Agents (1839-1840), *Moseley I. Danforth, Thomas Underwood, Charles C. Wright* (1840-1841), *Samuel Stiles* (1841-1843).
BALD, SPENCER, HUFTY & DANFORTH, Phila., PA, Exchange Bldg. (1843-1844).

• Signed Articles of Association 29 April 1858.

DANFORTH, BALD, SPENCER & HUFTY, NYC (1843-1844), 34 Wall St. (1844).
Moseley I. Danforth, Robert Bald, Asa Spencer, Samuel Hufty, Samuel Stiles, Alfred Sealey (1844).
SPENCER, HUFTY & DANFORTH, Phila., PA, Exchange Bldg. (1844-1847).
DANFORTH, SPENCER & HUFTY, NYC: 34 Wall St. (1844-1845); 1 Wall St. (1845-1847).
Moseley I. Danforth, Asa Spencer, Samuel Stiles, Alfred Sealey, Samuel Hufty.
HUFTY, DANFORTH & CO., Phila., PA, 95½ Walnut St. (1847-1850).
DANFORTH, HUFTY & CO., Phila., PA, 1 Wall St. (1847-1850).
Moseley I. Danforth, Samuel Hufty, Samuel Stiles, Alfred Sealey, Fitch Shepherd (1849-1850).
DANFORTH, BALD & CO., Phila., PA, 95½ Walnut St. (1850-1852).
Moseley I. Danforth, Edward J. Danforth, Nicholas D. Danforth, Samuel Stiles, Robert L. Bald (resigned 1852), *Alfred Sealey, Fitch Shepherd, James McDonough* (1851-1852), *Cyrus Durand* (1851-1852).
Boston, MA: 78 State St. (1851); 228 Washington St. (1852).
David Russell (1851), *S.A. Schoff, Henry Kurtz, Lloyd Glover* (1852).
Cincinnati, OH, 38 W. 4th St. (1851-1852).
Samuel B. Munson, James E. Smith.
DANFORTH, WRIGHT & CO., NYC, 1 Wall St. (1853-Feb. 1858).
Moseley I. Danforth, Edward J. Danforth, Nicholas D. Danforth, Henry Perkins, James McDonough, Samuel Stiles, Cyrus Durand, Fitch Shepherd, William D. Nichols, James Wright, Frederick Girsch (1855-1856), *Charles Harrison* (1855-1858).
Phila., PA, 3rd & Walnut St., Exchange Bldg.
Boston, MA, 228 Washington St.
Lloyd Glover (1853-1854), *D.L. Glover* (1853), *S.A. Schoff* (1853), *A.C. Warren* (1854).
Cincinnati, OH: 25 W. 3rd St. (1853); 3rd & Walnut St. (1854-1858).
Samuel B. Munson (1853-1855), *Samuel B. Munson*, Agent (1856-1858), *Charles A. Jewett* (1853-1857).
DANFORTH, PERKINS & CO. (Mar. 1858-29 Apr. 1858).
Moseley I. Danforth, Edward J. Danforth,* Henry Perkins.**
Phila., PA, Exchange Bldg.
Boston, MA, 228 Washington St.
Cincinnati, OH, 3rd & Walnut St.

II
TOPPAN, CARPENTER & CO.

CHARLES TOPPAN, London, England (1819-1823).
CHARLES TOPPAN, Engraver & Printer, Phila., PA, 28 Sansom St. (1829-).
CHARLES TOPPAN & Co., Phila., PA, 28 Sansom St. (1830-1834).
TOPPAN, MAVERICK & CO. (1830-).
Charles Toppan, Peter Maverick (d. 7 June 1831).
DRAPER, TOPPAN, LONGACRE & BULL. Phila., PA (1833-).
John Draper, Charles Toppan , Marcus Bull.
DRAPER, TOPPAN, LONGACRE & CO. (1835-1839) Phila., PA, 60 Walnut St.; NYC, 1 Wall St.
John Draper, Charles Toppan, James B. Longacre, Marcus Bull.
DRAPER, TOPPAN & CO., Phila., PA (1839-1844): 60 Walnut St. (1839); 103 Locust St. (1840); 5 Bank Place (1840-1842); 76½ Walnut St. (1843-1844); NYC: 1 Wall St. (1839-1842); 16 Wall St. (1842-1844).
John Draper (resigned 1844), *Charles Toppan* (1841-1844), *Simeon Smith Jocelyn* (1840-1844), *Peter H. Draper* (1843-1844), *William C. Smillie* (1840-1844), *Charles Harrison* (1840-1841), Boston, MA (1843-). *John Draper, Charles Toppan, Samuel H. Carpenter.*

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* Signed Articles of Association 29 April 1858.

TOPPAN, CARPENTER & CO., Phila., PA, 76½ Walnut St. (1844-1850).
Charles Toppan, Samuel H. Carpenter, Simeon Smith Jocelyn, Nathaniel Jocelyn
Boston, MA: 60 State St. (1844); 24 Merchants Exchange (1845); 66 State St. (1846-1850).
TOPPAN, CARPENTER, CASILEAR & CO., Phila., PA, 76½ Walnut St. (1850-1855).
(1849-1850), *Henry E. Saulnier, William C. Smillie.*
NYC: 16 Wall St. (1844-1845); 31 Wall St. (1845-1847); 29 Wall St. (1848-1850).
NYC: 29 Wall St. (1850-1851); 111 Broadway (1851-1855).
Boston, MA, 68 State St. (1852-1855).
Cincinnati, OH, 119 Walnut St. (1851-1855), Charles A. Jewett, Agent (1853-1855).
Montreal, Canada, Great St. James St. (1854-).
Charles Toppan, Samuel H. Carpenter, John W. Casilear (1850-July 1855), *Simeon Smith Jocelyn* (1850-1853), *Nathaniel Jocelyn* (1850-1854), *Simeon Starr Jocelyn* (1850-1854), *Henry E. Saulnier, William C. Smillie, James Smillie, William Main Smillie* (1853-1855), *Francis A. Casilear* (1853-1854).
TOPPAN, CARPENTER, & CO., NYC, 111 Broadway (1855-1858).
Charles Toppan, Samuel H. Carpenter,* William C. Smillie, James Smillie, Charles T. Carpenter,* Samuel H. Carpenter, Jr.,* Henry E. Saulnier,* Paul S. Casilear* (1856-1858).
Phila., PA, 76½ Walnut St.
Cincinnati, OH, 119 Walnut St. (1855-1858).
Charles A. Jewett, Agent (1855-1856), E.C. Middletown, Agent (1857), *Charles Toppan* (1858).
Boston, MA, 20 State St. (1856-1857).

III

DRAPER, WELSH & CO. with JOCELYN, DRAPER, WELSH & CO.

(American Bank Note Co.)

AMOS DOOLITTLE, Copper Plate Engraver, New Haven, CT (1755-).
JOCELIN & DOOLITTLE, Copper Plate Printers, New Haven, CT (1782-).
Nathaniel Jocelin, Amos Doolittle.
AMOS DOOLITTLE, Bank Note Engraver, New Haven, CT (1800-).
NATHANIEL JOCELIN, Bank Note Engraver, New Haven, CT (1815-).
JOCELIN & MUNGER, Engravers & Printers, New Haven, CT (1816-).
Nathaniel Jocelin, George Munger, Simeon Smith Jocelin.
HARTFORD GRAPHIC & ENGRAVING CO., Hartford, CT (1817-1818).
*Elkanah Tisdale, Moseley I. Danforth, Asaph Willard, Nathaniel Jocelyn,** Abel Brewster.*
N. & S.S. JOCELYN, Publishers & Engravers, New Haven, CT (1817-1841): Glebe Bldg. (1818); Bradley Bldg. (1819-).
Nathaniel Jocelyn, Simeon Smith Jocelyn.
JOCELYN & GOLDSMITH, Engravers & Printers, New Haven, CT (1819-).
Nathaniel Jocelyn, Simeon Smith Jocelyn, A.B. Goldsmith.
JOCELYN & DOOLITTLE, Engravers & Printers, New Haven, CT (1819-).
Nathaniel Jocelyn, Simeon Smith Jocelyn, Curtis M. Doolittle.
NATHANIEL JOCELYN, Engraver, New Haven, CT. (Associated with Murray, Fairman & Co., Phila., PA (1819-).)
N. & S.S. JOCELYN, Savannah, GA (Branch).
Nathaniel Jocelyn (artist).***
JOCELYN & MUNSON, Engravers & Printers, New Haven, CT (1830-).
Simeon Smith Jocelyn, Samuel B. Munson.
WELSH & WALTER, Bank Note Engravers & Printers, Phila., PA, 98 Chestnut St. (1844-).
Charles Welsh, A.B. Walter, Joseph Walter.

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* Signed Articles of Association 29 April 1858.
** Spelling changed to Jocelyn ca. 1818.
*** Jocelyn was painting portraits in Savannah (1821-1823).

JOCELYN, DARLING & CO., Engravers & Printers, NYC (1831-1834): 36 Wall St. (1831); 31 Merchants Exchange (1832-1834).
Simeon Smith Jocelyn, Charles Darling.
N. & S.S. Jocelyn, NYC (branch), 14 Wall St. (1833-1841).
*Nathaniel Jocelyn, Simeon Smith Jocelyn.*****
CHARLES WELSH, Engraver, Phila., PA, 191 Christian St. (1841-1845).
DRAPER & CO., Phila., PA, 60 Walnut St. (1845-1850).
John Draper, Robert Draper, William Draper.
DRAPER, WELSH & CO., Phila., PA, 22½ Merchants Exchange (1851-1854).
John Draper (resigned 1853), *Robert Draper, Charles Welsh.*
DRAPER, WELSH & CO., Phila., PA, 22½ Merchants Exchange (1854-1858).
Robert Draper, Charles Welsh, Nathaniel Jocelyn, Simeon Starr Jocelyn.
AMERICAN BANK NOTE CO., Jocelyn, Draper, Welsh & Co., NYC. 7 Wall St. (1854-1858).
Nathaniel Jocelyn, Simeon Starr Jocelyn,* Robert Draper,* Charles Welsh,* Alfred Sealey* (1856).

IV
BALD, COUSLAND & CO.

PETER MAVERICK, Engraver, Copper Plate Printer, NYC: Nassau St.; Duane St.; Walker; and Liberty Sts. (1802-1817).
P. MAVERICK, DURAND & CO., NYC, 2 Pine St. (1817-1820).
Peter Maverick, Asher B. Durand.
ASHER B. DURAND, Engraver, NYC, 27 Provost St. (1821-1822).
DURAND & WRIGHT, NYC, 8 Varick St. (1823-1824).
Cyrus Durand, Charles C. Wright.
A.B. & C. DURAND, WRIGHT & CO., NYC (1824-1828): 8 Varick St. (1824-1826); 50 Wall St. (1827).
Asher B. Durand, Cyrus Durand, Charles C. Wright, Joseph Perkins, George W. Hatch (1827-1827).
DURAND, PERKINS & CO., NYC, 50 Wall St. (1828-1832). (When this company dissolved some effects were sold to Rawdon, Wright, Hatch & Co.)
Asher B. Durand, Cyrus Durand, Joseph Perkins, Elias Wade, Jr., George W. Hatch (1828-1830).
C.C. WRIGHT & DURAND, NYC, 45 Maiden Lane (1833-1835).
Charles C. Wright, Cyrus Durand.
CASILEAR, DURAND & CO., NYC, 53 William St. (1834-1835).
John W. Casilear, Theodore Durand, James R. Burton, William Edmonds.
CASILEAR, DURAND, BURTON & EDMONDS, NYC, 50 Wall St. (1835-1837).
John W. Casilear, Theodore Durand, James R. Burton, William Edmonds, William C. Smillie (1836-1837), *Albert G. Durand* (1835-1837).
BURTON, GURLEY & EDMONDS, NYC, 26 Wall ST. (1837-1838).
James R. Burton, Royal Gurley, William Edmonds.
BURTON & GURLEY, NYC, 20 Wall St. (1838-1839).
James R. Burton, Royal Gurley.
DURAND & CO., NYC (1839-1842): 26 Wall St. (1839-1841); 115 Merchants Exchange (1842).
Cyrus Durand (Company dissolved; other partners unknown).
WOODRUFF & HAMMOND, Cincinnati, OH, Corner of 4th & Main Sts. (1840-).
William Woodruff (PA), *John T. Hammond* (NY).
DURAND, HAMMOND & MASON, Cincinnati, OH, Corner of 4th & Main Sts. (1842-)
Albert G. Durand, John T. Hammond, Daniel Mason.

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* Signed Articles of Association 29 April 1858.

**** Jocelyn was also associated with Draper, Underwood, Bald & Spencer and their successor partnerships in 1841. Partnerships of N. & S.S. Jocelyn also used dies of Rawdon, Clark & Co.

GEORGE D. BALDWIN, Copper Plate Printer, NYC, 35 Spring St. (1847-1848).

DURAND, BALDWIN & CO., NYC, 40 Wall St. (1848-1850).

Cyrus Durand, Albert G. Durand, George D. Baldwin.

BALDWIN, ADAMS & CO., NYC, (1851-1854).

George D. Baldwin, William H. Adams.

ROBERT L. BALD & CO., Phila., PA, 95½ Chestnut St. (1853-).

Robert L. Bald (d. 20 July 1853), *J. Dorsey Bald.*

BALD, ADAMS & CO., Phila., PA (1854-).

J. Dorsey Bald, William H. Adams.

BALDWIN, BALD, COUSLAND & CO., NYC (1854-1857): 40 Wall St. (1854-1855); 9 Nassau St. (1856-1857).

George D. Baldwin, J. Dorsey Bald, William Cousland, David R. Harrison (1855-1857).

BALD, COUSLAND & CO., NYC, 9 Nassau St. (1858-).

J. Dorsey Bald, William Cousland, David R. Harrison.

Phila., PA (1854-1858); 74 Walnut St. (1854-1857); 326 Walnut St. (1858).

J. Dorsey Bald, William Cousland,* Frederick E. Bliss,* Edward A. Moss,* Albert G. Goodall.**

V

RAWDON, WRIGHT, HATCH & EDSON

ABNER REED, Albany, NY (1793-1798).

ABNER REED, Engraver, Copper Plate Printer., E. Windsor, CT (1798-).

ABNER REED, Designer and Bank Note Engraver, Hartford, CT (1803-1821).

REED & STILES, Copper Plate Engravers and Printers, Hartford, CT (1821-1824).

Abner Reed, Samuel Stiles.

RALPH RAWDON, Cheshire, CT (1813-1815).

RALPH RAWDON, Albany, NY (1816-).

WILLARD & RAWDON, Bank Note Engravers, Albany, NY (1816-).

Asaph Willard, Ralph Rawdon.

RAWDON & BALCH, Engravers, Albany, NY (1820-).

RAWDON, BALCH & CO., Albany, NY (1822-1826).

Ralph Rawdon, Vistus Balch.

RAWDON, CLARK & CO., Albany, NY, 55 State St. (1827-1834).

Ralph Rawdon (in NYC 1828-1834), *Asabel Clark.*

RAWDON, WRIGHT & CO., NYC, 35 Merchants Exchange (1828-1831).

Ralph Rawdon, Neziah Wright.

RAWDON, WRIGHT, HATCH & CO., NYC, 35 Merchants Exchange (1832-1834).

Ralph Rawdon (1832), *Freeman Rawdon* (1833-1834), *Neziah Wright, George W. Hatch, Tracy R. Edson* (1834), *Albert G. Durand* (1833-1834), *Asher B. Durand* (1833), *William C. Smillie* (1833-1834).

RAWDON, WRIGHT, HATCH & EDSON, NYC, 35 Merchants Exchange (1835).

Freeman Rawdon, Neziah Wright, George W. Hatch, Tracy R. Edson. Albany, NY office, 55 State St.

RAWDON, WRIGHT & HATCH, NYC (1836-1846): 30 Wall St. (1836-1840); 48 Merchants Exchange (1840-1846).

Ralph Rawdon (1841-1846), *Freeman Rawdon* (1842-1846), *Neziah Wright, George W. Hatch, Tracy R. Edson* (1836), *John G. Wellstood* (1840-1845), *William H. Whiting* (1839-1846), *James Parsons Major.*

Boston, MA (1843-1847): 25 Merchants Exchange (1843-1846); 24 Merchants Exchange (1847).

Timothy House (1845-1847), *Timothy House, Jr.* (1847).

Cincinnati, OH, 3rd & Main Sts. (1842-1846).

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* Signed Articles of Association 29 April 1858.

William F. Harrison, Mgr. (1842-1843), *George T. Jones* (1843), *George T. Jones*, Agent (1844).

RAWDON, WRIGHT, HATCH & SMILLIE, Pictorial Engravers, NYC, 48 Merchants Exchange (1842).

Ralph Rawdon, Freeman Rawdon, Neziah Wright, James Smillie (and other employees of RW&H, NYC).

NEW ENGLAND BANK NOTE CO., Newburyport, MA (-1833).

Abraham Perkins.

Boston, MA (1833-1837).

Abraham Perkins (1833-), *W.S. Pendleton* (1833-), *Hazen Morse* (1833-). *Nathaniel Perkins* (1833-).

Boston, MA. 204 Washington St. (1837-1848). (RWH&E held half-interest, I. Cary owned the other.)

Nathaniel Perkins, Agent, *W.S. Pendleton* (1837), *Isaac Cary* (1845-1848), *J.H. Bufford* (1847).

Boston, MA. 204 Washington St. (1848-1858) Isaac Cary and RWH&E, NYC half owners.

RAWDON, WRIGHT, HATCH & EDSON (1847-1858), New Orleans: Royal & Canal (1843-1850); 10 Royal (1851); 12 Royal (1851-1858). Tracy R. Edson, Partner & Mgr. (1837-1847).

Solomon Schmidt (1843-1850), as engraver and "Agent" (1851-1858).

NYC, 48 Merchants Exchange (1847-1858).

Freeman Rawdon, Neziah Wright, George W. Hatch,* Tracy R. Edson,* James Parsons Major, Peter Hall.*

Cincinnati, OH. 148 Main St.

George T. Jones, Agent, *Thomas F. Harrison* (1853-1858).

Boston, MA, 24 Merchants Exchange (1839-1840).

GEORGE MATTHEWS, Montreal, Canada (-1858).

VI

JOHN E. GAVIT

HALL, PACKARD & CUSHMAN, Albany, NY, Exchange Bldg. (1839-1840).

John W. Hall, Rawson Packard, Thomas H. Cushman.

PACKARD & GAVIT, Albany, NY, Exchange Bldg. (1840-1841).

Rawson Packard, John E. Gavit, John H. Hall.

JOHN E. GAVIT & CO., Albany, NY, Exchange Bldg. (1841-1849).

John E. Gavit, Daniel E. Gavit.

GAVIT & DUTHIE, Albany, NY, Exchange Bldg. (1849-1850).

John E. Gavit, James Duthie.

GAVIT & CO., Albany, NY, Exchange Bldg. (1851-1852).

John E. Gavit.

JOHN E. GAVIT,* Albany, NY, Exchange Bldg. (1852-1858).

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* Signed Articles of Association 29 April 1858.

VII
WELLSTOOD, HAY & WHITING

JOHN G. WELLSTOOD, Engraver, NYC, 20 Bedford St. (1836-1840).
WILLIAM H. WHITING, Engraver, NYC, 20 Bedford St. (1836-1846).
JOHN G. WELLSTOOD, Engraver, NYC, 48 Merchants Exchange (1840-1846).
WILLIAM H. WHITING, Engraver, NYC, 48 Merchants Exchange (1840-1846).
DeWITT CLINTON HAY, Engraver, NYC (1844-1849): 14 Leroy St. (1844-1846); 120 Leroy St. (1847-1849).
BENJAMIN W. BENSON, NYC, 35 Spruce St. Merchant (1846-1847), Engraver (1848).
OWEN G. HANKS, Engraver, NYC, 235 W. 21st St. (1846-1848).
WELLSTOOD, BENSON & HANKS, NYC, 52 Merchants Exchange (1848-1851).
John G. Wellstood, Benjamin W. Benson, Owen G. Hanks, William H. Whiting (1850-1851).
WELLSTOOD, HANKS, HAY & WHITING, NYC, 52 Merchants Exchange (1852-1855).
John G. Wellstood, Owen G. Hanks, DeWitt Clinton Hay, William H. Whiting.
WELLSTOOD, HAY & WHITING, NYC, 52 Merchants Exchange (1856-1858).
John G. Wellstood, DeWitt Clinton Hay,* William H. Whiting.**
Boston, MA, 12 School St.
Chicago, IL (-1858).

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* Signed Articles of Association 29 April 1858.

AMERICAN BANK NOTE HOLOGRAPHICS was organized in 1987; it represented about 30% of the sales for International BNCo, the parent company. ABN Holographics has "produced over three billion holograms for magazine covers, annual reports, packaging, advertising, product design, credit cards (VISA ™, Discover ™ Card, and Mastercard ™ video) cassettes and security and anti-counterfeiting applications" (*IntBNCo Annual Report*, 1988). In February 1990 United States Banknote Corporation purchased International BNCo.

ANDERER, Joseph. *Sid.* He was employed at the Security BNCo ca. 1930-1950.

ANDERER, Wendell. *Sid.* He was employed at the Security BNCo ca. 1930-1950.

ANDERSEN, Stephen F. *LtEng.* He might have worked for Columbian BNCo. In 1938 Andersen applied at American BNCo.

ANDERSON, G. *Eng.* b. London, England ca. 1828, d. ca. 1890. He was working in the U.S. by 1850. Anderson engraved for J.M. Butler in Philadelphia.

ANDERSON, Ed. *LtEng.* He was working at American BNCo in 1959.

ANDERSON, William. *ScrpEng.* In Canada he engraved for the British American BNCo. Anderson was employed at American BNCo between 24 Aug. 1922 and 4 Jan. 1935.

ANDERSON, W.O. *PEng & LtEng.* He was employed by the Franklin BNCo. A female portrait, *Lilli*, on the Long Island Traction Co. certificate is attributed to Anderson.

ANDREWS, Joseph. *LEng.* b. Hingham, MA 17 Aug. 1806, d. Boston 7 May 1873. After his apprenticeship under Abel Bowen of Boston he became a partner in the firm of Carter, Andrews & Co., Lancaster, MA 1827-1833. In 1835, 1840 and 1853 Andrews studied in Europe. He could be the Andrews who engraved the *Landing of Columbus, No. 2* in June 1861 for American BNCo. He engraved a head of Benjamin Franklin by Duplessis. Mantle

ANNIN, William B. He was engraving in Boston in 1813 and died there in 1839. Until 1831 he was with Smith, Annin & Smith Senefelder Lithographic Co. in Boston; in 1833 he operated the partnership of Annin & Smith, bank note engravers at 70 State St., Easton, Massachusetts.

ARCHER, Edward P. *PEng.* b. New York City 28 Dec. 1924, d. 1990. In Jan. 1941, following studies at the Mechanics Institute in New York City, he went to American BNCo his apprenticeship was under William F. Ford. In July 1952 Archer moved to Jeffries BNCo. After 15 years with this company he joined the Bureau of Engraving and Printing in July 1967; Mr. Archer retired in Nov. 1989. See U.S. stamps for examples of his work.

ARCHER & DALY. This Richmond, VA lithographic firm was one of the primary producers of Confederate States of America stocks and bonds.

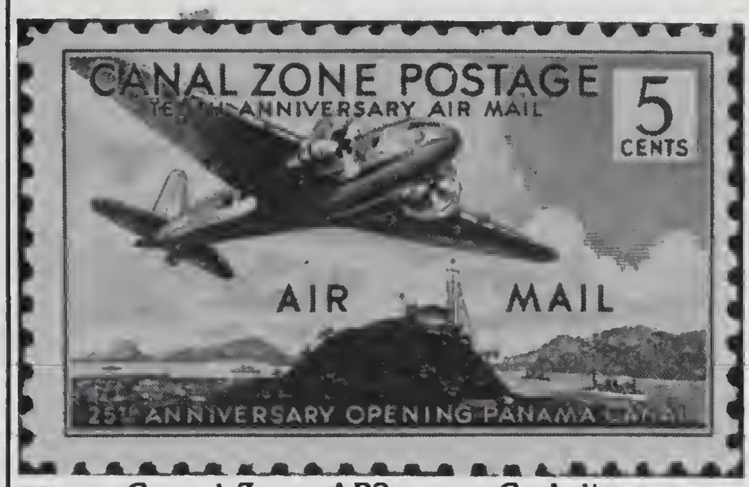
ARCHER & HALPIN. When the latter engraver joined the firm of Archer & Daly in Richmond the name was changed.

ARCHER, Harold. *LtEng.* He was employed at American BNCo from 17 April 1905 until 1957.

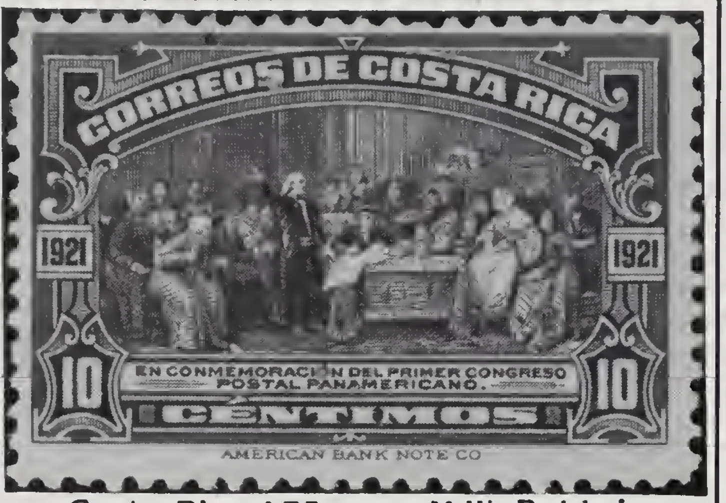
ARCHER, John. This engraver was employed at American BNCo. He moved to Richmond, VA in 1861 to form Archer & Daly.

ARCH-HL. F. *Trans.* (see Amendt.)

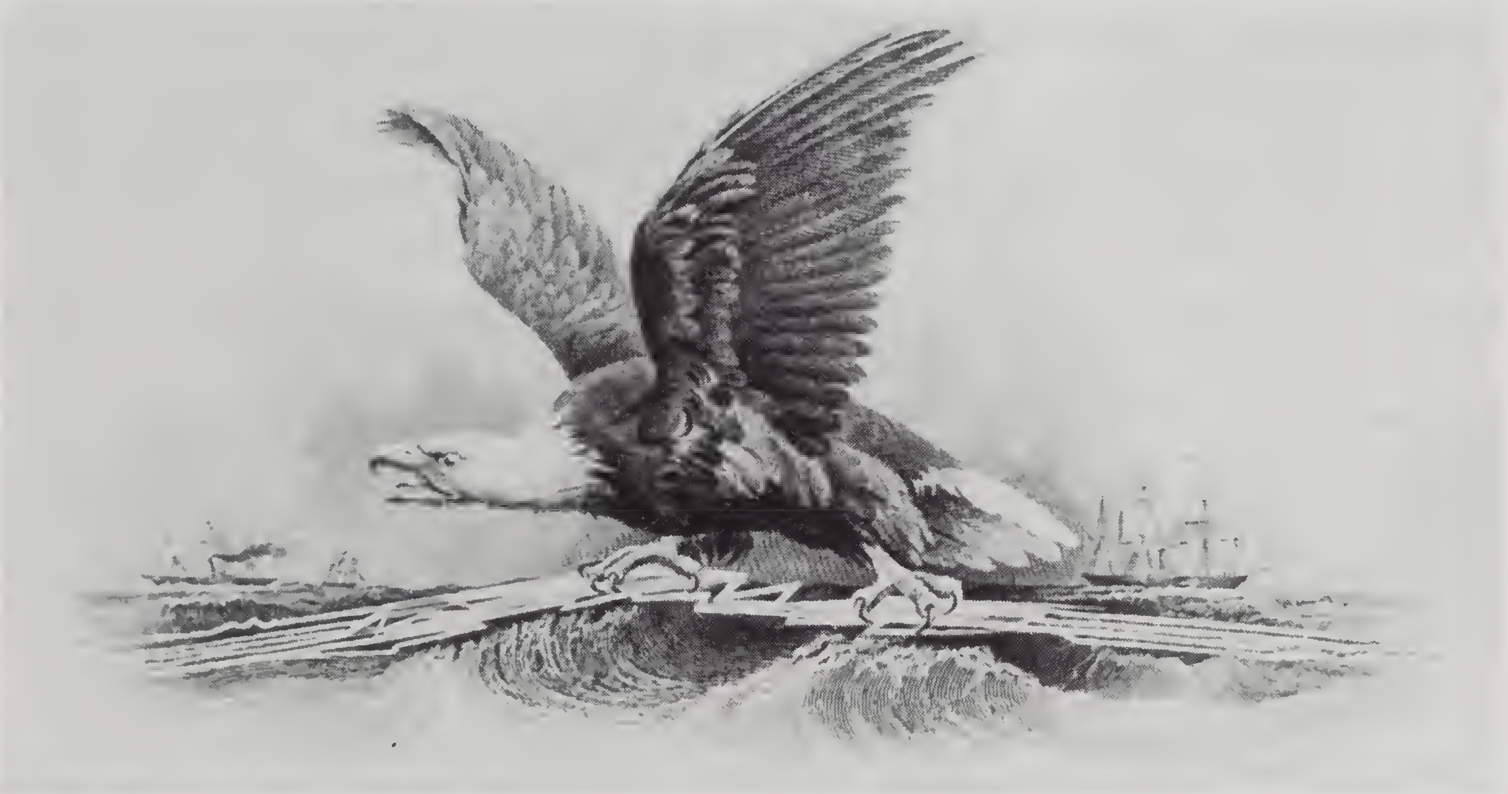
ARLT, Carl Theodore. *PEng & PtEng.* b. 10 Oct. 1883, d. Nov. 1956. He was with E.A. Wright Co. 1904-1909; Security BNCo until 1911; American BNCo 1911-1917. After two years at the Bureau of Engraving and Printing he worked as a free-lance engraver. Arlt probably engraved for the Hamilton BNCo 1919-1923. In 1929 he was at the British American BNCo. Arlt returned to the BEP where remained from 1934 to 1951. The name Arlt is recorded for at least seven engravings in the records of Republic BNCo including *The First Oil Well* for Quaker State Oil, and the *Stuart-Warner Corporation Building* for company stock certificates. As does any serious artist, Arlt labored over his work so that the finished engraving would prove to be his best effort. As an example, when he studied the model for the Iowa Territory stamp (A310), the corn did not look right. He asked a colleague at the BEP, who lived in the suburbs, to bring a corn stalk from his garden. After several days with the eight-foot stalk in his presence he proceeded to engrave the design. About the Northwest Territory stamp (A309) Mr. Arlt said if one looks closely one of the statue-figures has a bag over his head. Although not completed, the statue was photographed for the modeler to execute. Since the sculptor did not furnish a completed design, the engraver created what he saw, without license. These and other comments about the stamps he engraved can be found in Sloane. "Arlt stated that he had been in the engraving business over thirty years before he finally engraved a die that seemed to meet his expectations fully. That was the eight-cent Zion of the National Park series" (Mueller, *EPJ*, *46*: 2, p. 85). Mr. Arlt engraved over 100 postage stamps.


CANAL ZONE POSTAGE
TENTH ANNIVERSARY AIR MAIL
5
CENTS
AIR
MAIL
25TH ANNIVERSARY OPENING PANAMA CANAL

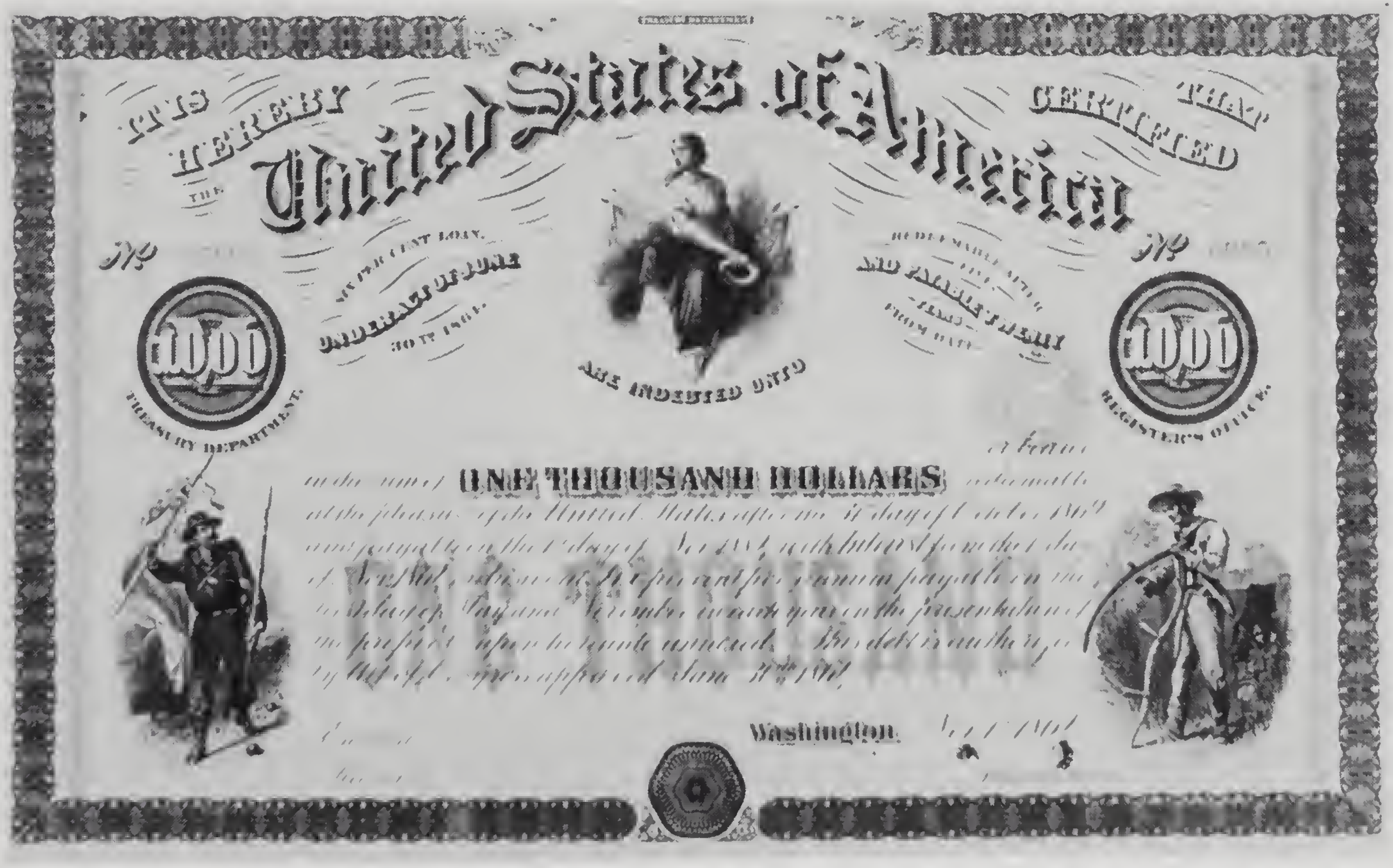
Canal Zone AP2, eng. C. Arlt.



Costa Rica A75, eng. M.W. Baldwin.



Ocean Telegraph, U.S. H828, eng. George D. Baldwin.



U.S. $1000, HX144J: *The Standard Bearer*, eng. George D. Baldwin, *Victory* and *Farmer with Scythe*.

Stamps

Canal Zone
Canal Channel, 11¢,
A54.
Plane over Sosa Hill,
5¢, AP2.
Roosevelt, T., 2¢,
A64.
Philippines
Barosoain Church, 1 peso, A63.

Philippines
Commonwealth Anniversary (all but Quezon portrait), A69.

Landing of Magellan, 16¢, A59 & A60.
Philippina Presented to the World, 2-50¢, A67.

Philippine Boy, 20¢, A60.
Rizal, José, 2¢, A76.

ARMSTRONG, William G. *PtEng.* b. Montgomery County, PA 1823, d. 1890. He resided in Philadelphia from 1840 to 1860 and was a pupil of James Longacre. In 1857 Armstrong was engraving for Bald, Cousland & Co. where he engraved the *Female Holding Wheat* (art by C. Schussele) on the Litchfield (CT) Bank $1, the Timber Cutter's Bank (Savannah, GA) $5 and a draft for the NB of Maysville, KY. Most of his professional life was devoted to bank note engraving.

ASHTON, _____. *LtEng.* He was employed by the Republic BNCo.

AVERY, Samuel P. *LtEng.* b. NYC 17 Mar. 1822, d. NYC 1904. After doing bank note engraving he turned to wood engraving. He worked for Harper & Bros. and other publishing companies. In 1870 Avery was the secretary of the Union League Club; it aided in the foundation of the New York Metropolitan Museum of Art.

B

B., S.P. *Eng.* "The Mutual Assurance Society Against Fire in Virginia" policy, done about 1825, bears the initials of this engraver, "S.P.B."

BABCOCK, George W. *Eng.* b. Providence, RI 21 April 1814, d. Providence, RI 1 October 1883. As a watchmaker and engraver, he engraved for Providence banks. In August 1846 Babcock engraved a copperplate for the Provisional Postmaster's stamps.

BACHE, Benjamin F. He printed Bank of America notes dated 6 Aug. 1789.

BADGELY, C.D. He was a designer at the Bureau of Engraving and Printing in 1939.

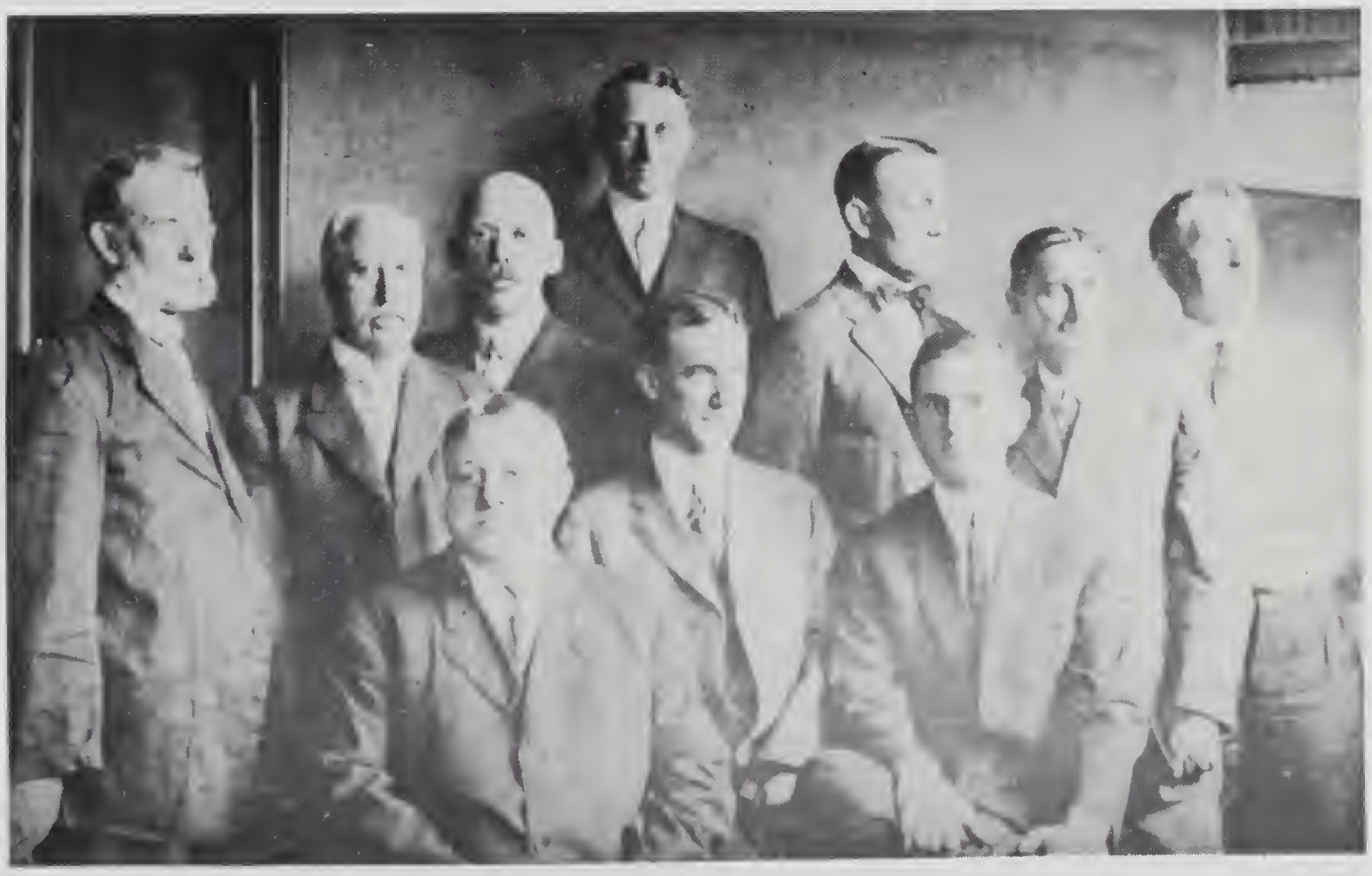
BAEL, _____. *Trans.* (see Amendt.)

BAGNALL, (Jr.)._____. *Trans.* (see Amendt.)

BAILEY, Francis. *Pr.* He learned printing from Peter Miller at Ephrata, Lancaster County, PA. After working there, including a one-year partnership with Stewart Herbert, he moved to Philadelphia ca. 1778 and as late as 1817 was located at 33 Locust Street. Bailey printed Pennsylvania notes dated 16 Mar. 1785, and U.S. Loan Certificates HX36 and HX40.

BAKER & DUYCKINEK. They were bank note printers in NYC during the late 1800s.

Employees of Baldwin and Gleason Bank Note Co. in 1889.



Engravers at the Bureau of Engraving and printing in 1919. Standing, left to right: unidentified, R.H. Warren, E.M. Weeks, Harry L. Chorlton, unidentified, E.M. Hall, C.A. Huston. Seated, left to right: E.E. Myers, A.J. Marsh, unidentified.

BAKOS, Thomas J. *LtEng.* b. Bridgeport, CT 24 March 1949. He studied at the College of San Mateo and holds a degree in art history from George Washington U. His outdoor interests include mountain climbing and skydiving. Currently, Bakos is employed at the Bureau of Engraving and Printing where he has engraved numerous postage stamps.

BALCH, Vistus. *Art & PEng.* b. Williamstown, MA 18 Feb. 1799, d. Johnstown, NY 25 Oct. 1884. He was working in Utica 1813; Albany in 1822; he moved to NYC in 1828. Vistus Balch was a member of the following firms: Rawdon & Balch; Rawdon, Balch & Co.; Balch, Stiles & Co.; Balch, Stiles, Wright & Co.; and V. Balch Co. of NYC and Albany. "V. Balch and Co. Albany" is found on some notes for Durand & Co. (1837-1840). He is credited with the American BNCo engraving of the State Seal of Maine, ca. 1858, seen on Consolidated Ice Co. stock certificate (1895).

BALD, J. Dorsey. *Attorney.* b. ca. 1826, d. 1878. A member of Bald, Cousland & Co. in 1854 and a founder of ABNCo in 1858. He was listed as an engraver in Philadelphia directories until 1878.

BALD, Robert L. *Eng.* b. Scotland ca. 1793, d. 20 July 1853. He moved to Philadelphia ca. 1823 and lived at 144 N. 8th St., later at 47 Sansom St. Bald was a member of Draper, Underwood, Bald & Spencer from 1833 to 1843. He remained with succeeding companies until 1853 when he resigned from Danforth, Bald & Co. and formed Robert L. Bald & Co.

BALDINO, Louis A. *Eng.* b. Philadelphia, PA 29 April 1909, d. Philadelphia 24 Dec. 1991. During his years of primary education he also worked for T.A. Bradley at Security BNCo. During his later years at the SecBNCo Mr. Baldino worked at every position except siderographer. He has engraved hundreds of certificates and bonds. The Denver and Rio Grande Western RR Co. $500 mortgage bond (1943) includes over 300 words in script, all the work of this engraver. Mr. Baldino became Superintendent of Engraving at the SecBNCo in 1945 and was named vice-president in 1973. He also worked as a professional violinist during the early years of his life.

BALDWIN, Enos. *Eng.* He was a partner of Baldwin & Dunnel in 1847.

BALDWIN, George D. *Eng.* b. ca. 1803, d. ca. 1872. Listed in New York City Directories as merchant 1830-1846; as a plate printer in 1847. He was with Durand, Baldwin & Co. 1848-1850; Baldwin, Adams & Co. 1851-1854; Baldwin, Bald & Cousland 1855-1858; worked independently 1858-1872.

United States Federal Bank Notes and Bonds

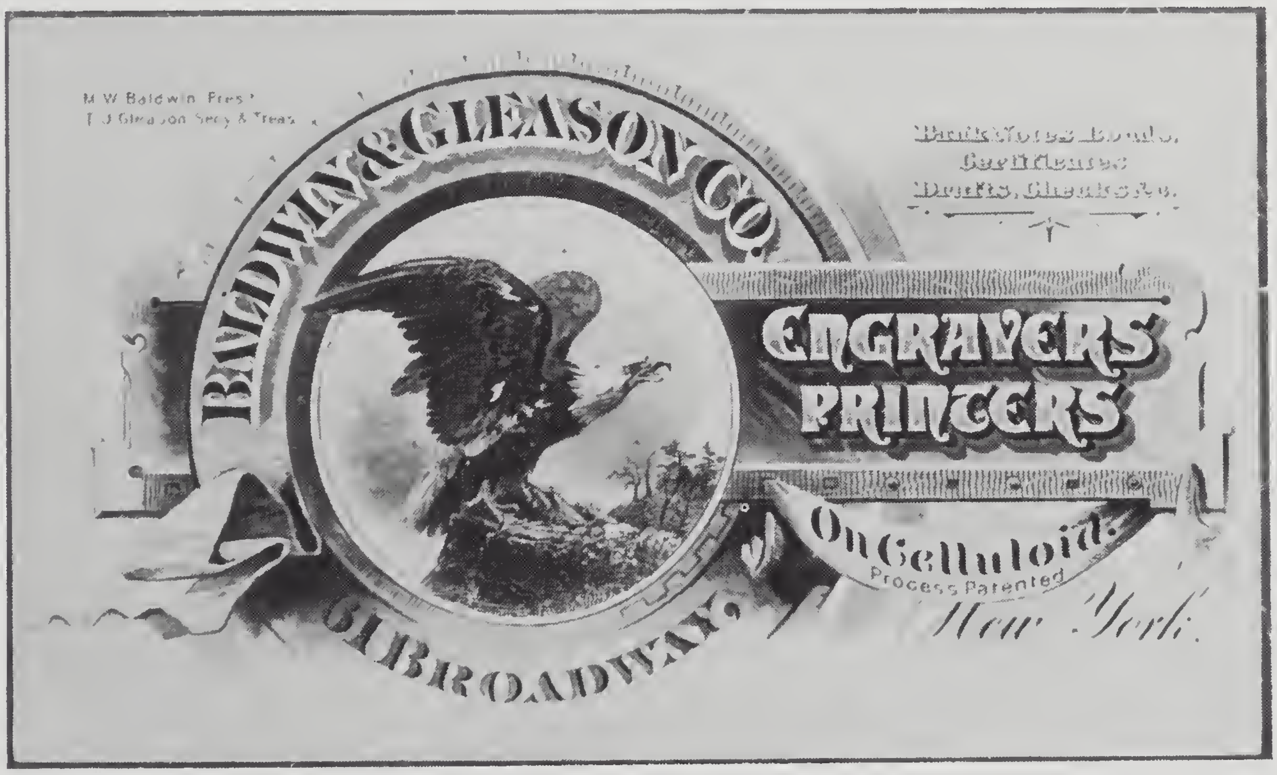
Ocean Telegraph, $20 GC, H828-833.	The Standard Bearer: $500 CITN H1337-1339b; $1,000 bond HX141D.

BALDWIN, Harold T. *PEng.* He was employed at American Bank Note Co. between 7 March 1927 to 8 September 1930 when he resigned.

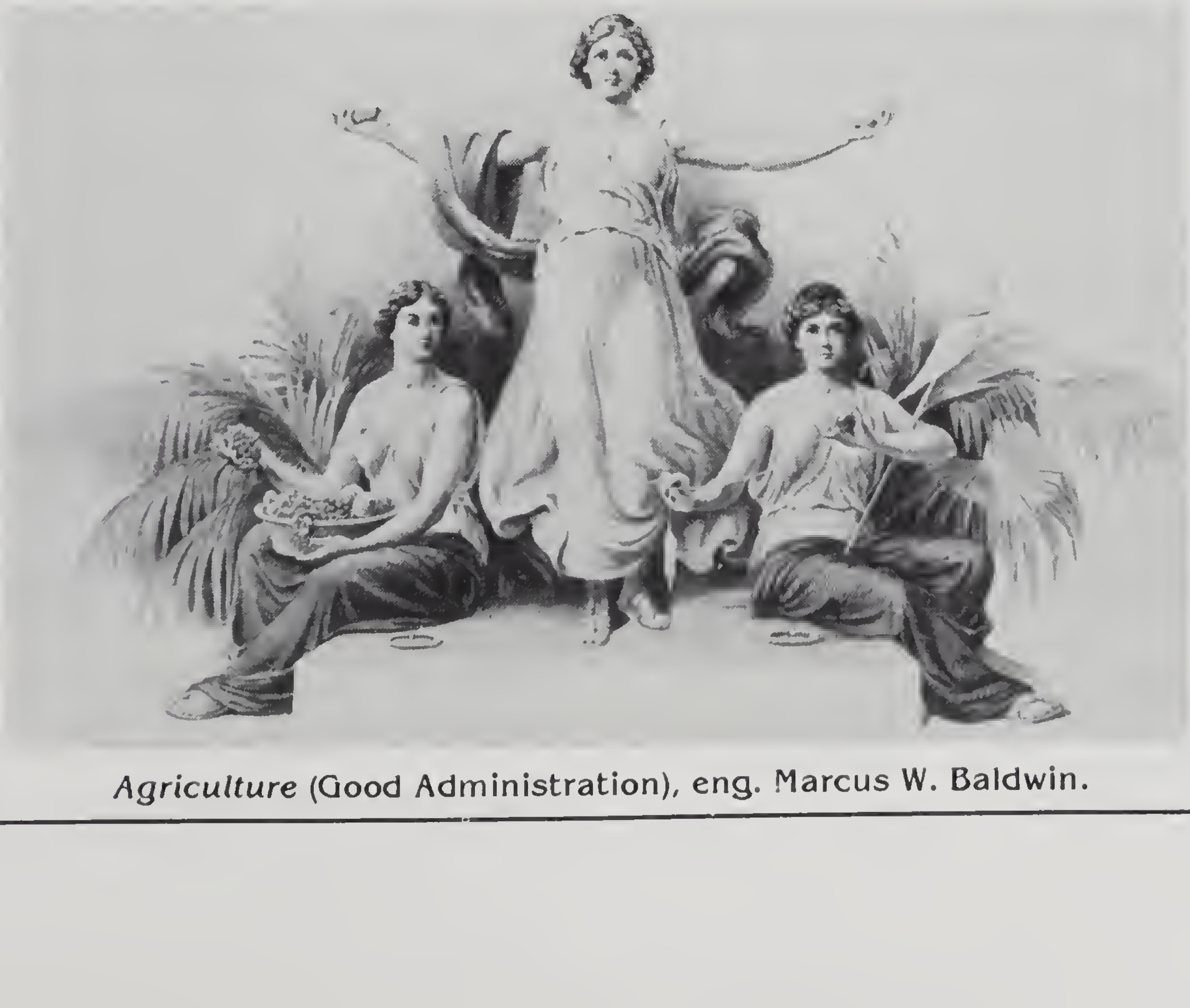
BALDWIN, Marcus Wickliffe. *PEng & PtEng.* b. Irvington, NJ 31 March 1853, d. NYC 15 July 1925. He was apprenticed at American BNCo under Louis Delnoce and Alfred Jones and studied evenings at the National Academy of Design. In 1869 Baldwin was with the National BNCo and remained after consolidation with ABNCo in 1878. Two years later he

George W. Babcock

Marcus W. Baldwin



Advertising card for Baldwin & Gleason Co.



Agriculture (Good Administration), eng. Marcus W. Baldwin.

formed Baldwin, Gleason & Co. in NYC. From 1891 Baldwin engraved privately and continued to do so after he joined the Bureau of Engraving and Printing on 5 Jan. 1897. He retired from the BEP on 20 Aug. 1920 and returned to ABNCo on 4 May 1921. His first work at the BEP was the non-portrait engraving on the ticket for the Presidential Inaugural Ball. In 1897 he retouched the controversial educational notes: $1 (sky), $2 (female head) and $5 (leaves); notes with these changes were not issued. At the BEP, Baldwin executed every type of engraving. He engraved the backs for the $20 (H848) and $50 (H1044) FR notes of 1914 in only 20½ working days. Postage stamp engravings outnumbered his bank note engravings.

United States Federal Bank Notes and Bond

Eagle, $1,000 FRN, H1429.

Farming, $10 (backs): FRN H618 & FRBN H620.

Land, Sea and Air, $20 (backs): FRN H848 & FRBN H850.

Pablo, $10 USN, H483-491.

Panama, $50 FRN, H1044.

The Maine, $1,000 bond, HX188D.

Military Payment Certificates

Commerce, Series 481, 50¢, S-B35.

Female Head, Series 661, $5 (back), S-B86.

Justice, Series 521, $10, S-B45.

Miscellaneous

Female Figures (3), the Panama-Pacific Exposition Diploma.

Foreign Bank Notes

Bulgaria

Shepherd and Sheep (eng. with L. Delnoce, Jr.), 50 leva, P40.

Canada

Mercury and Manufacturing, $100, PS969.

Colombia

de Sucre, Antonio J. (finished by W. Ford), 50 pesos, P365.

Greece

Caryatide from Porch of Erectheum, 1,000 drachmai (back), P79.

Coin, 25 drachmai, P74.

Neptune, 500 drachmai (back), P68.

Philippines

Conant, Charles A., 1 peso, P51.

Uruguay

Montevideo, 100 pesos, PS321.

Corporate Bonds

Britannia (eng. with R. Savage), Commonwealth of Australia (1925).

Mining and Lumbering (art by A. Foringer), Humble Oil & Refining Co.

Navigation (art by A. Foringer), Atlantic Fruit & Sugar Co. (1924).

Telephone, New England T&T (1922).

Marcus W. Baldwin

Stock Certificates

At the Ford (eng. with James Smillie), Pet Milk Co.

Mining & Lumbering (art by A. Foringer), Copper Range Co. (1949).

Ward, R.B., Ward Baking Co. (1926).

Stamps

Belgian Congo

Making Palm Oil, 10 francs, A32.

Costa Rica

Columbus & Isabella, 10¢, A75.

Nicaragua

Chamorro, F., 5¢, A29.

Chamorro, Pedro J., 25¢, A31.

Panama

Bolivar, Simon, 2½¢, A43.

de Yeaza, C., 8¢, A46.

Herrera, T., 24¢, A50.

Hurtado, M. José, 2¢, A52.

Vallarino, J., 1¢, A41.

Salvador

Menendez, F., 1¢, A94.

Miscellaneous

Agriculture (Good Administration): U.S. Consolidated Federal Farm Loan bd. (1926); Philippine $1,000 cp. bd. (1922).

Britannia (eng. with R. Savage), Government of the U.K. of Great Britain and Northern Ireland gold note (1919).

Rivera, Louis M., Internal Revenue Cigarette Stamp.

Harding, W.G. (1924), Republican National Convention ticket.

BALDWIN, Wickliffe M. He was a siderographer and transferrer at the Franklin BNCo, Rawdon, Wright Hatch & Edson, and the National BNCo. W.M. Baldwin and his son Marcus Wickliffe Baldwin both joined the Bureau of Engraving and Printing in 1897.

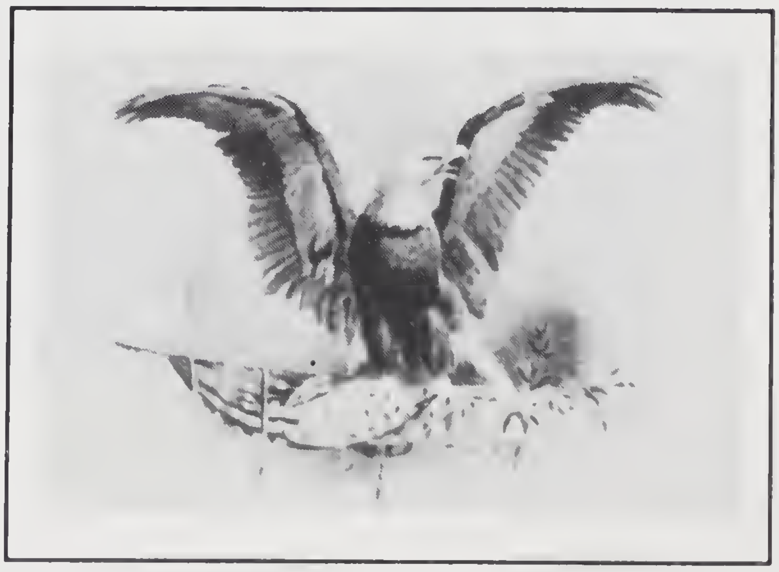
BALE, James. *Eng & D-S.* b. ca. 1805, d. ca. 1852. From 1829 to 1834 he was a partner with Charles C. Wright.

BANK NOTE CORPORATION OF AMERICA. This company is owned and operated by Francois-Charles Oberthur Fiduciare. In early 1990 it moved into the Suffern, NY plant, formerly the engraving and printing facilities of American BNCo. Some ABNCo employees were retained by BNCA.

BANNISTER, James. *PEng.* b. England 1821, d. Brooklyn, NY 11 Oct. 1901. He was in New York City prior to 1846 and exhibited his art work at the National Academy of Design in 1858. In 1878 he was with the Franklin Engraving & Printing Co., when the company was absorbed by American BNCo. At ABNCo, among other things, he engraved *Men on Elephant and Man on Horse* on a label for the Oriental Print Works, Apponaug, RI and the *Arms of Russia* (42 mm wide); the use is uncertain. For a while, about 1860, Bannister probably worked for ABNCo.

United States Federal Bank Notes

Eagle of the Capitol $10: CITN, H493-495a and IBTN, H496.

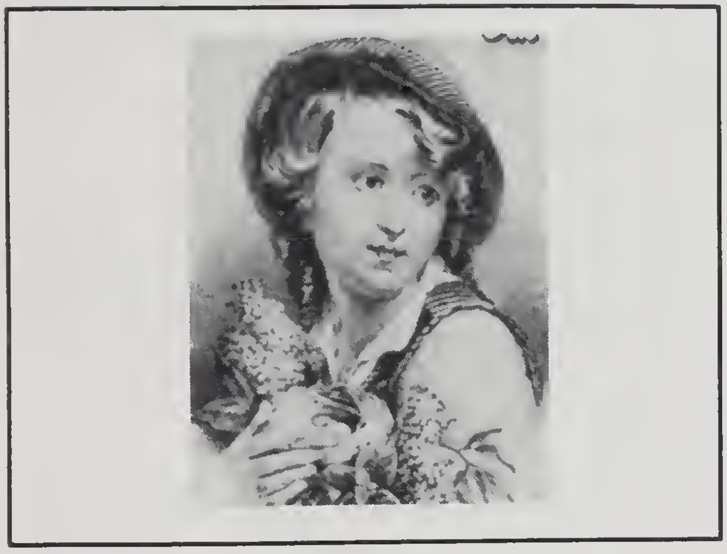


Landing of Columbus, $5 NBN, H274-286. (Four additional versions were engraved by others.)

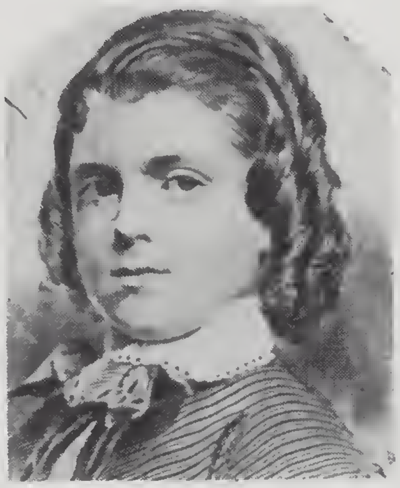
State Seals of Utah and *Virginia* for NBN backs.

Union, $100: NBN, H1151-1183; NGBN, H1207-1211d.

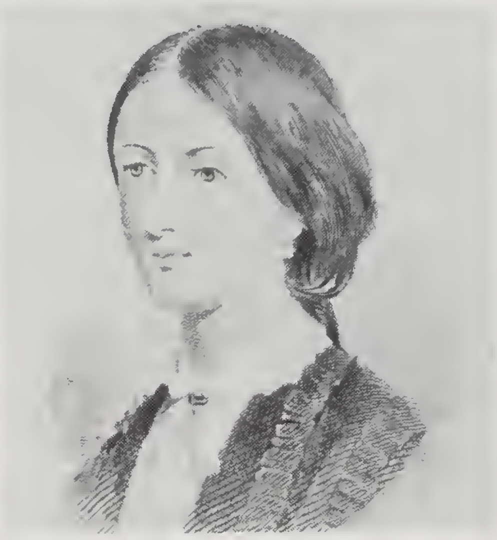
United States Obsolete Bank Notes



Boy & Bird's Nest, Egg Harbor Bank, NJ $10



Boy's Head: Farmers Bank of Greensboro, NC $3; Middletown Bank, NY $1.
Chase, S.P.: Petroleum Bank, Titusville, PA $1.
Clay and Scott, Northern Bank of KY $5, $10, $20, $50 & $100.
Female Profile: Bank of MI (Marshall), $5; Citizens Bank, Pittsburgh, PA $10.
Gaines, Maj. Gen. E.P., City of Memphis, $20.
Girl's Head: Orleans County Bank, Albion, NY $2; Bank of the Ohio Valley, Cincinnati $3.
George, Winsted Bank, CT $3.
Groesbeck, J.H., Bank of Ohio Valley, Cincinnati, $5 & $10.
Hill, S.M., North Berwick Bank, ME $10 & $20.
Josey, Oil City Bank, PA $10.
le Claire, A., State Bank of IA $5.
Lucas, Gov. R., State Bank of IA $1.
Male portrait, Bank of Lebanon NH $100.



Nightingale, Florence: Bank of Jersey City, NJ $2; Monticello Bank, Charlottesville, VA $5.

Otis, W.A., Northumberland County Bank, Shamokin, PA $2.

Pickens, Gen. Andrew, State of SC $10.

Rescue, The (art by C. Schussele), State of SC $10.

Richardson, J., Bank of North America, Philadelphia, PA $1.

Strong, Gov. Caleb, Holyoke Bank, Northampton, MA $20.
Westfall, R.P., Westfall's Bank, Lyons, NY $2.

Foreign Bank Notes

Argentina

Belcerse, Gen. D.G., 10 pesos, PS653.
Chloe, 1 & 10 pesos, PS1594 & PS1607.
de las Heras, Gen. G., 50 pesos, PS488-490.
Girl's Head (right side), 5 pesos, PS1803.
Lopez, Gen. D.E., 20 pesos, PS817.
Minerva No. 2, 8¢, PS500.

Nathalie, 20¢, PS515 & PS533.

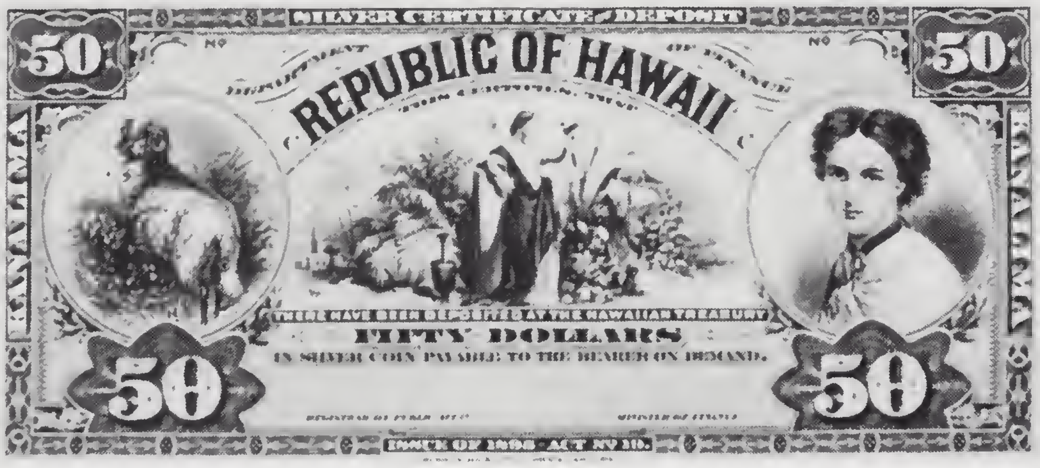
Pinto, G., 1 peso, PS545.
Rodriquez, Gen. M., 1 peso, PS676.
Pueyrredon, Gen. J.M., 500 pesos, PS497.

Foreign Bank Notes
(continued)

Brazil
Pedro II, Dom, 1-100 mil reis, PA244-PA247, PA252 & PA257.
St. Sebastian, 200 mil reis, PS255.
Canada
Girl's Head, $2, PS1667.
Wales, Prince of, $20, PS1933.
W., J.G., $4 (left side), PS681.

Chile
Female and Children, 50 pesos, PS112.
Freire, Gen. D.R., 1 peso, PS166.
Minerva No. 2, 2 pesos, PS187.
Minerva No. 3, 20 pesos, PS309.

Colombia
Columbia (art by J. Oertel), 50 pesos, PA106.


SILVER CERTIFICATE OF DEPOSIT
50
REPUBLIC OF HAWAII
KANALIMA
FIFTY DOLLARS
IN SILVER COIN PAYABLE TO THE BEARER ON DEMAND.
50

Hawaii
Fannie, $50, P3.
Italy
Roma, 1 lira, PS272 & 5 lire, PS273.
Mexico
Benites, José, 5 pesos, PS1577.
Female and Children, 50 pesos, PS348.

Peru
Funeral of Atahualpa, 100 soles, PS317 & PS327, 500 soles, P10.
Mother & Child, 5 soles, PS551.

Uruguay
Freedom (art by J. Oertel), 50 pesos, PA106.

Corporate Bonds

Liberty & Massachusetts (art by T.A. Liebler), New Haven & Northampton Co. cp. bd. (1879).
Small Eagle No. 2, Pacific Coast Rwy (1882); Central Pacific RR (1984).

Stamps

Argentina
Belgrano, M., A6 & A8.
San Martin, A9.
Brazil
Dom Pedro, A6, A8a, A9 (eng. with C. Burt), SA11 (eng. with C. Burt).
Canada
bill stamps (1864), 1¢-30¢.
Mexico
A3 (1 & 2 rials, & 1 peso, all eng. with F. Girsch).

New Brunswick
Connell, C., A2.
Victoria, Queen, A4 (eng. with A. Sealey), A5 & A6.

Newfoundland
Albert, Prince A11.
Victoria, Queen, A12 & A16.
Edward VII (eng. with A. Sealey), A15.
Nova Scotia
Victoria, Queen, A3.

BARATZ, Richard. *PEng.* b. ca. 1944. He was employed at American BNCo until February 1990 when the company was purchased by United States BNCorp. He then joined Bank Note Corporation of America. Mr. Baratz is also a recognized cartoonist.

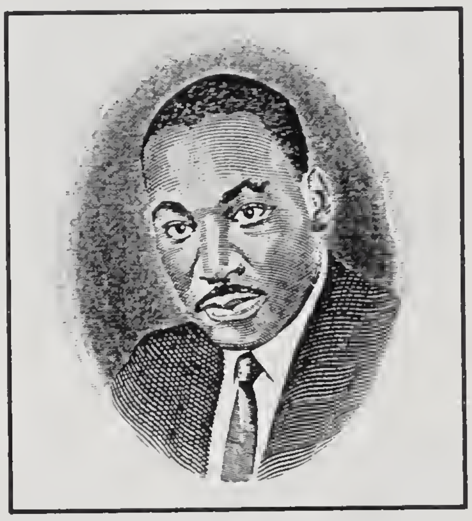
Bond & Stock Certificates

Alexander Graham Bell, Bell Atlantic Corp. stock certificate (1984).

Female at Spinning Wheel (1813), J.P. Stevens & Co. stock certificate (1987).

Female with Caduceus (art by R. Lavin, eng. with E. Cranz), Health America Corp. bond (1984).

United States Postal Panels



King, Martin Luther (1984).

Olympic Runner (1984).

Olympic Skier (1983).

Ruth, Babe (1984).

BARBER, R. & Co. This printer from Albany, NY printed small change notes issued by Davis & Clark dated 22 Dec. 1790.

BARBER, George W. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s.

BARBER & SOUTHWICK. They printed undated notes (ca. 1790) for the Presbyterian Congregation of Ballstown, NY.

BARNARD, William S. *Eng.* A sample sheet of "W.L. Ormsby, New York" engravings is credited to this engraver.

BARRALET, Charles. *Eng & Inv.* b. Dublin, Ireland 1747, d. Philadelphia 16 Jan. 1815. Barralet was first employed as a book illustrator. He invented a ruling machine for bank note work and improved inks.

BARRICK, Reuben K. *LtEng. & ScrpEng.* b. Sedalia, MO 14 Mar. 1916. His studies at Corcoran Gallery School of Art in Wash., DC from 1937 to 1941) served as his apprenticeship for the Bureau of Engraving and Printing where he operated a pantograph machine from 16 May 1938 to 1 Jan. 1943. Following duty in the U.S. Navy, Barrick returned to the BEP as a LtEng and ScrpEng on 18 Apr. 1948. He engraved until 12 July 1959 when he was appointed Assistant Chief of the Engraving Division and Chief in 1964. Mr. Barrick retired on 20 April 1971.

BARTELL, C. William. *PEng.* He engraved for Quayle & Son and had a lithographic, design and engraving studio in Albany, NY in 1931.

BARTON, J.F. This engraver was employed at the Bureau of Engraving and Printing.

BASCH, Benno. *Eng.* b. MA 25 Oct. 1877. He began his employment at the Bureau of Engraving and Printing on 6 Oct. 1924; he was named an engraver on 1 Oct. 1934. Basch retired on 31 October 1947.

BAUER, W. He was employed in the Transfer Division of American BNCo in 1911.

BAYER, James T. This engraver was employed at the Bureau of Engraving and Printing in 1937.

BEACH, Jared. This printing press maker operated at 88 Mulberry St. in NYC 1818-1820.

BEADLE, Frank. This engraver was employed at American BNCo in 1894.

BEADLE, W. He was employed in the Engraving Dept. of American BNCo in 1881.

BEAL, S. *Trans.* (see Amendt.)

BEAL, W. *Trans.* (see Amendt.)

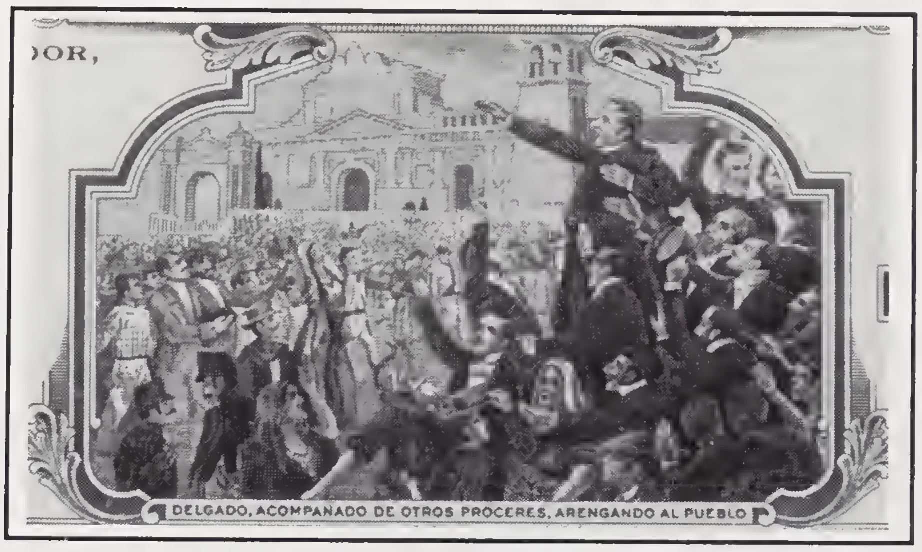
BEAUJARD, Yves. *PEng.* b. France. He was employed at United States BNCorp from about 1966 until 1973 when he returned to France.

Foreign Bank Notes

El Salvador
Delgado Addressing Crowd: 5 colones, P97.

Independence Monument, 100 col., P111.
Reservoir, 25 col., P106.

Venezuela
Bello, Andreas (retouched by Michael Nelgrove), 50 bolivares (1990).


OR,
DELGADO, ACOMPANADO DE OTROS PROCERES, ARENGANDO AL PUEBLO

BECKER, Clarence. *Eng.* He was employed at the Philadelphia office of American BNCo in 1860.

BECKWITH, Henry S. *Art & Eng.* b. England, d. ca. 1904. He achieved considerable recognition in England for his engravings of Landseer's paintings. Beckwith came to New York City ca. 1842 and worked with Alfred Jones until 1843. He was employed by American BNCo, the Continental BNCo ca. 1873, and also the Homer Lee BNCo. Unless specified as engraver, drawings for the following are by Beckwith.

United States Obsolete Bank Notes

Agricultural Emblems, State of TN, $5.
Bruno: Bank of Michigan, Marshall, $1; Bank of Hastings, MN, $2.
Caesar: Minneapolis Bank, MN $1; County of Montgomery, AL $1.
Dog on safe: Farmers Bank of Lancaster, PA, $1; Union Bank of TN, $2.

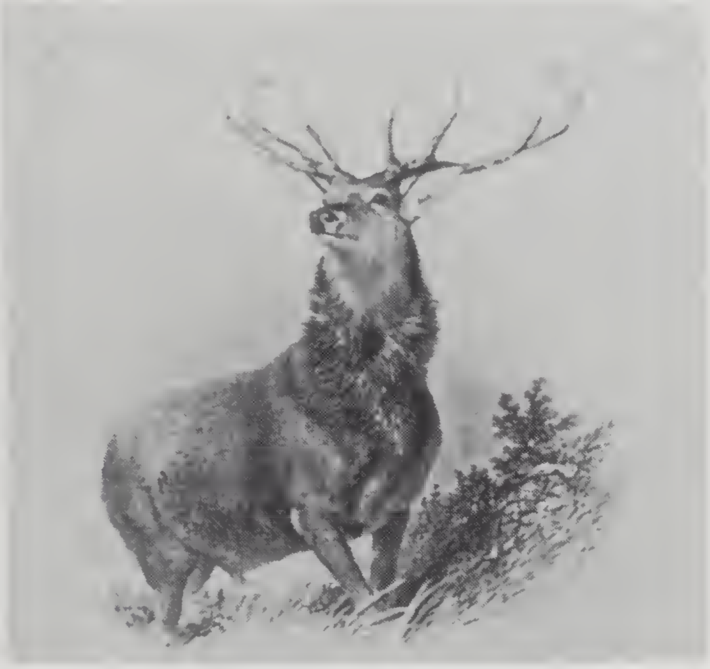
Express Wagon (eng. with W.W. Rice, art by H.W. Herrick) Mercantile Bank, Hartford, CT $5.

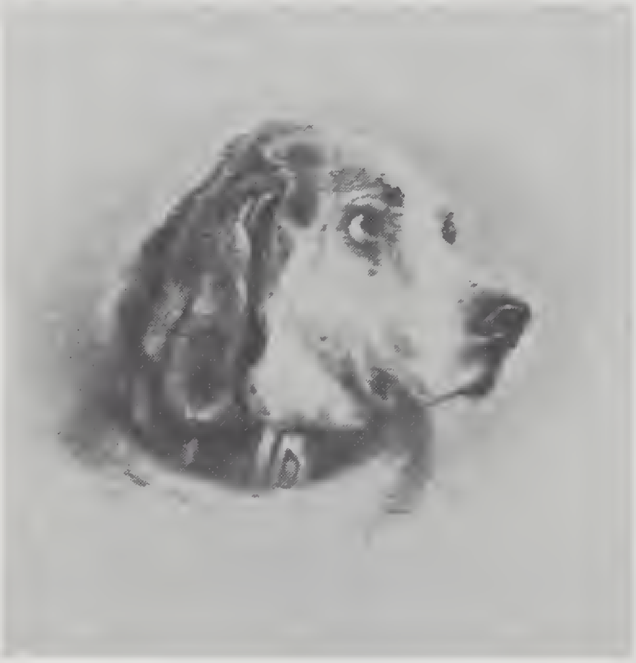
Lifesavers (four men eng. by W. Earle; etched by H. Beckwith), Provincetown Bank, MA $20.
Looking Out (eng.): Citizens' Bank of Louisiana, New Orleans $2; Commercial Bank, Bristol, RI $2.

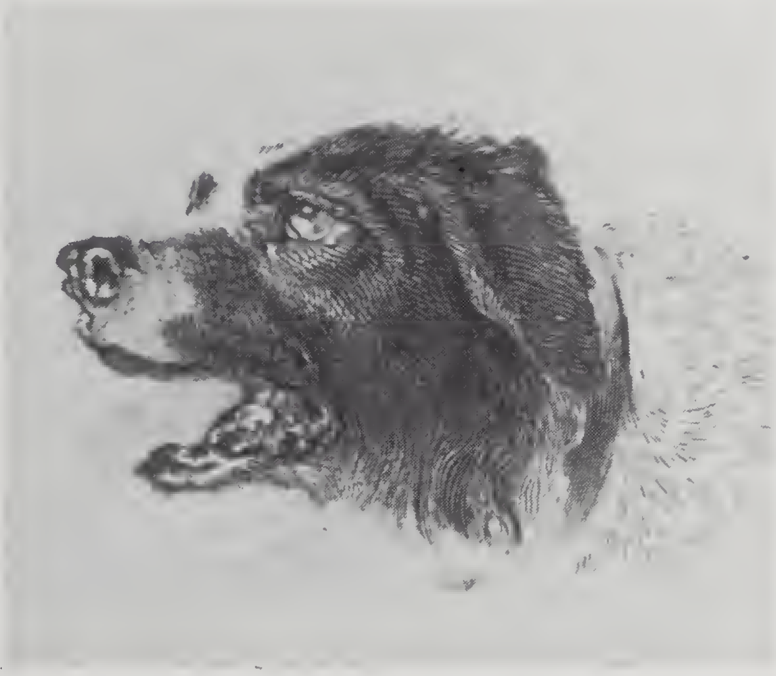
Monarch of the Mountains: Bank of (Marshall) MI, $5; City of Covington, KY, $10.

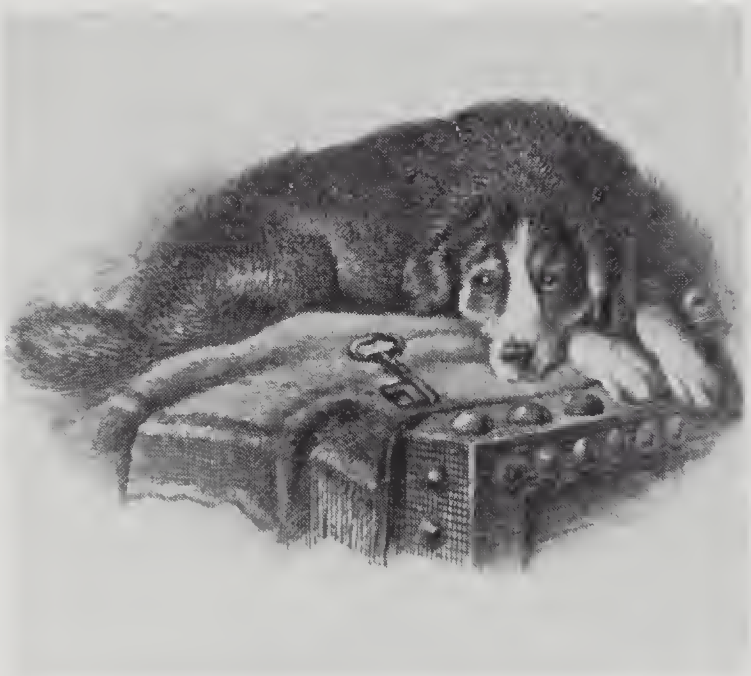
Rhode Island Seal (ship in oval), Merchants National Bank, Providence, RI.

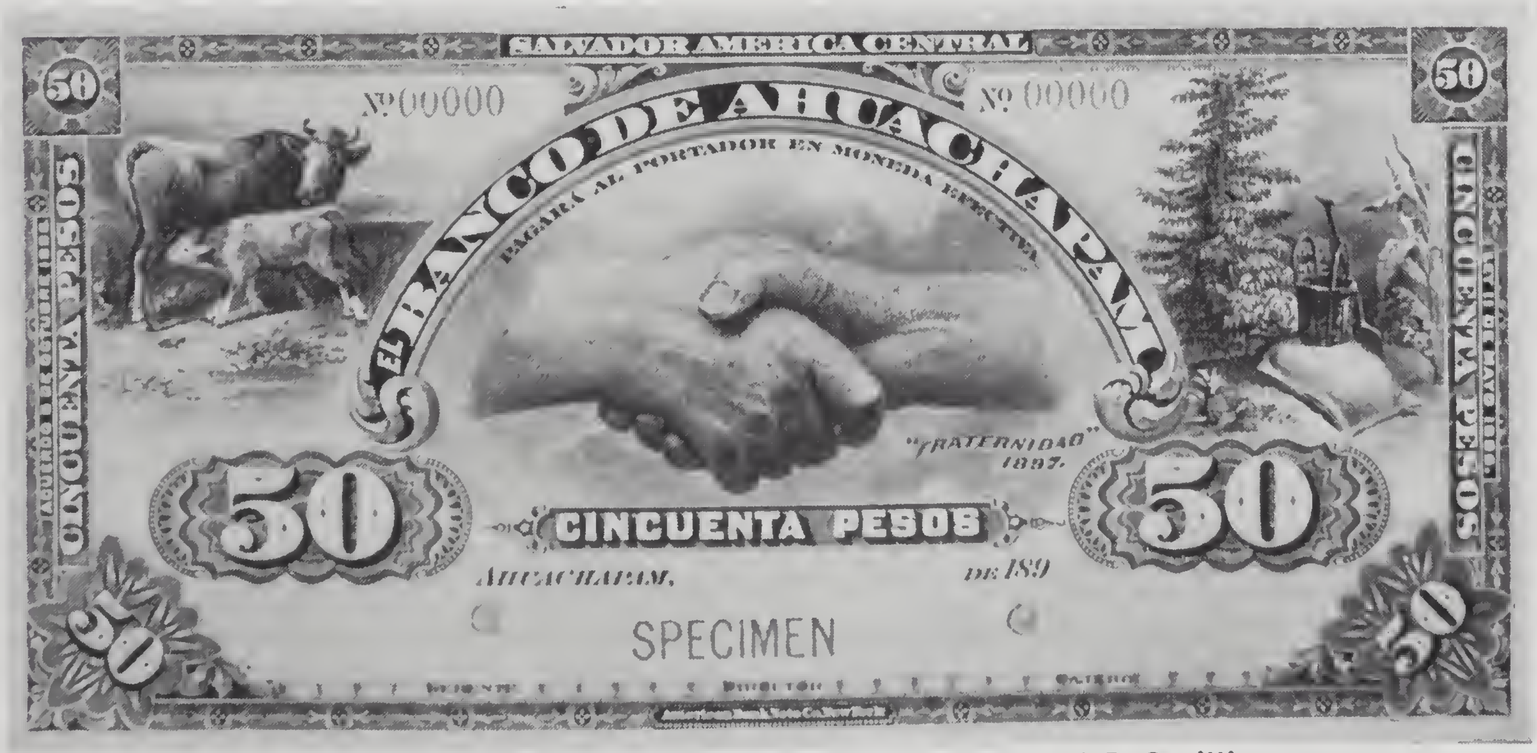
Engravings by Henry S. Beckwith


Monarch of the Mountains, Bank of Michigan.


Caesar, Argentina, PS1781.


Bruno, see obsolete notes.


On the Watch, Mexico PS120.



Cow and Calf, El Salvador PS126; *Hands*, see G.F.C. Smillie.

Foreign Bank Notes

(continued)

Argentina

Arms of 14 provinces (eng. with J. & G.F.C. Smillie), 20¢-50 pesos, PS644-656.

Caesar, 4 reales, PS1781.

Cow and Calf, 1 peso, PS1782.

Crossing the Pampas (art by T. Kramer), 20 pesos, PS1794.

Buenos Aires Ram, 1 peso, PS481.

Horse, 50¢, PS812.

Jaguar, 2 pesos, PS1532.

My Horse, 5 pesos, PS1791 & PS1802.

On the Watch (art by E. Landseer), 5 pesos, PS1792.

Ram, 5 pesos, PS538.

South American Ox Team (eng. J.D. Smillie), 10 pesos, PS539.

Canada

Arms (art & eng. by Beckwith), $2, PS1523 & PS1528.

Lion (art & eng. by Beckwith), $1, PS1612 & $5, PS1417.

Chile

My Horse (art by E. Landseer), 5 pesos, PS397.

Colombia

On the Watch (art by E. Landseer), 10 pesos, PS773.

El Salvador

Cow and Calf, 50 pesos, PS126.

Haiti

On the Watch (art by E. Landseer), 2 gourdes, P76.

Hawaii

Horse, $100, P4.

Propellers, $500, P5.

Ram, $50, P3.

Mexico

Jaguar, 5 pesos, PS360.

On the Watch (art by E. Landseer), 1 peso, PS120.

Stable Window, 5 pesos, PS148.

Paraguay

Jaguar, 20¢, PS143.

Peru

Goat Head, 2 soles (back), PS312.

Llama Train, 100, 500 & 1,000 soles, PS234-236.

Stable Window, 100 soles, PS276.

Uruguay

Calf's Head, 100 pesos (back), PS215.

Horse, 50¢, PS372.

Miscellaneous

ABNCo trade mark (eagle facing right).

Boston & Maine Railroad Depot (art by S. Smith), use uncertain.

Cattle, Argentine Republic cp. bd. (1883).

Codfish, Newfoundland 2¢ stamp, A9.

On the Watch (art by E. Landseer), Merchants Bank of Newark, NJ stock certificate.

The Vintage (eng. with A. Jones; art by F.W. Edmonds), Citizens Traction Co. cp. bd. (1887).

Wheeler & Wilson Sewing Machine Factory (art by L. Delnoce from a daguerreotype), use uncertain.

BEDINFIELD, William E. *PEng.* His apprenticeship began in 1918. Mr. Bedinfield was employed at Quayle & Son, and Security-Columbian BNCo as late as the 1960s. He is credited with the figure of *Hercules* on the stock certificate for Hercules Inc.

BEECH, Harry R. He was Foreman of the Plate Printing Division at the Bureau of Engraving and Printing from 1938 to ca. 1977.

BEJECK, Joseph. *LtEng.* He was employed at American BNCo between 11 June 1923 and 12 July 1934.

BELAUME, J. *Seal Eng.* As J. Belume (sic) this name appears in 1825 "on a dry-point etching in New Orleans, on a print representing the triumphal arch erected to commemorate the visit of General Lafayette to New Orleans" (Opitz 59).

BENEDUM, Charles J. *ScrpEng.* d. 21 Feb. 1943. He was employed at American BNCo from 6 July 1925 until 17 Aug. 1936 with the exception of about 18 months at Hamilton BNCo in 1935 and 1936.

BENGQUIST, Gordon. *Eng.* The apprenticeship of this engraver at the Bureau of Engraving and Printing was interrupted by World War II. After the war he decided not to return to the Bureau.

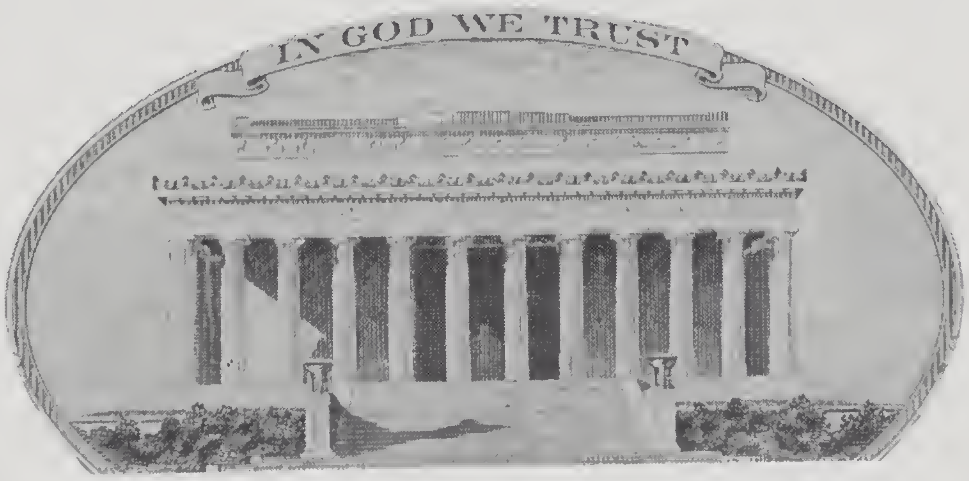
BENKMAN, H. William. *Trans.* After working for Kihn Brothers he joined American BNCo on 1 March 1926.

BENSON, G. *Pant.* He was employed at American BNCo from 8 Oct. 1917 until he resigned on 26 May 1921 with the exception of 18 months of service during World War I.

BENSON, Benjamin W. *Eng.* d. ca. 1852. He was listed as a merchant and later an engraver in NYC at 35 Spruce St. Benson was a founder of Wellstood, Benson & Hanks; he remained with this firm from 1848 to 1851.

BENZING, Joachim C. *Art, PEng & PtEng.* b. Ellicott City, MD 19 Nov. 1880. At 14 he studied clay modeling with George Morgan, medalist at the U.S. Mint. He learned engraving under James Blakie and in 1895 apprenticed at E.A. Wright Co. in Phila. In 1900 Benzing graduated from Drexel Institute and immediately began engraving at American BNCo. Five years later he was at the Bureau of Engraving and Printing; appointed Chief of the Engraving Division in 1933; retired in Aug. 1943.

United States Federal Bank Notes
Jefferson, T., all small-size $2 notes.
Lincoln Memorial, all small-size $5 notes (back).



Military Payment Certificate
Female Head, Series 541, $5 (back), S-B51.

Stamps
Philippines
Post Office, 4¢, A44.
Rice Planting, 20¢, A47.

BERNSTEIN, J. He was employed at the Hamilton BNCo, probably as an engraver.

BERRY, R. *PEng.* He was employed in the Engraving Dept. of American BNCo as early as 1880.

Foreign Bank Notes

Bolivia

Clock Tower & Building, 10 bolivianos (back), PS174.

Cochabamba Plaza, 20 bol. (back), PS175.

Costa Rica

Arms of Costa Rica, 1 colon, P143 & 2 colones, P146.

Corporate Bonds

Banana Tree (eng. with E. Gunn), Cuyamel Fruit Co. 6% 1st mortgage (1925).

Brooklyn Elevated Railroad (eng. with J. Smillie, 1879), 1st mortgage coupon bond.

Locomotive (eng. with W.J. Brown, 1908), Albany and Susquehanna RR Co.

Stock Certificates

Carnegie Trust Co., U.S. Realty & Improvement Co.

Paterson Savings Institution (1906).

Miscellaneous

Arms of Habana (joint arms of Spain and Cuba), Provincia de la Habana Examo Ayuntamiento de la Habana 8% bond (1880).

Arms of the City of New Orleans (eng. with G.F.C. Smillie, 1880).

BEST, Edward S. *Eng.* b. London 1826, d. 1865. He came to the U.S. ca. 1850 and was employed by J.M. Butler in Philadelphia.

BETHUNE, W. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1815 where he is credited with a portrait of *Mrs. Graham.*

BICKETT, Thomas. *LtEng.* He was employed at the Hamilton BNCo before he joined American BNCo on 8 March 1913. Bickett retired on 1 Aug. 1939.

BIEN, Charles. *ScrpEng.* In the 1920s and 1930s he was employed at E.A. Wright BNCo, Dreka Co. and Cauldwell Co.

BIEN, Louis. *LtEng.* He was employed at Elliot BNCo, Cauldwell Co., and the Philadelphia office of American BNCo.

BILLINGS, Joseph. *Eng.* "According to a proclamation of 1770, he was a forger and counterfeiter of bills of credit of the Province of Pennsylvania" (Opitz 71).

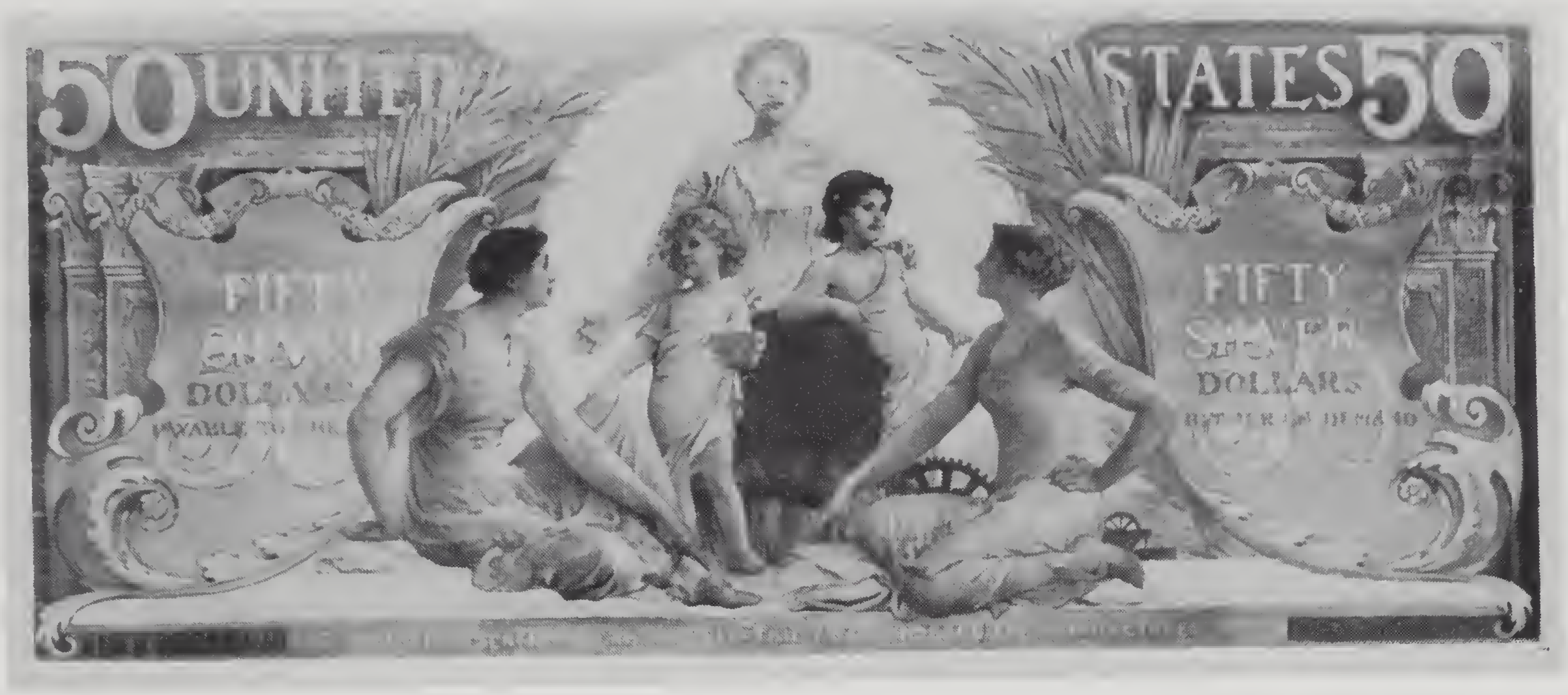
BLACK, Andrew. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s and as late as 1951.

BLAHO, John. *Pant.* He was employed at American BNCo on 17 Oct. 1923 and remained there until 1959.

BLANTON DUNCAN. This Columbia, SC firm, with 17 lithograph presses, produced Confederate currency, mostly in denominations from $5 to $100.

BLASHFIELD, Edwin H. *Art & Des.* b. NYC 15 Dec. 1848, d. Cape Cod, MA 12 Oct. 1936. He attended the Boston Latin School and was among the first 16 to attend MIT when it opened in 1865. In 1867 he went to Paris to study painting under Gérôme, Chapu and Bonnat. Along with other muralists he decorated the Manufacturers Building and Liberal Arts Building at the World's Columbian Exposition in Chicago (1892 & 1893). Blashfield was commissioned to design a $50 silver certificate as part of a new series dated 1896. This design was altered, against his protests, to a $2 note that featured *Electricity Presenting Light to the World.* Blashfield received the National Academy Design medal in 1934 and he served as president of the Federation of Fine Arts and the Society of American

Artists. In June 1912 President Taft appointed him to the National Commission of Fine Arts. (See *PAPER MONEY*, July/Aug. 1984 for a list of murals and paintings by Blashfield.)



The original design for the $50 silver certificate.

BLAUVELT, A. He printed small change notes issued by the City of Perth Amboy, NJ dated 10 Feb. 1792.

BLISS, Frederick E. *ScrpEng.* This member of Bald, Cousland & Co. remained with American BNCo after formation in 1858. Bliss specialized in engraving signatures.

BLOMGREN, Carl. *LtEng.* d. 1938. He was with the Western BNCo ca. 1871. In 1904 he joined the Republic BNCo. in Pittsburgh. On 2 Nov. 1942 this company merged with the Security BNCo.

BOAG, _____. *Trans.* (see Amendt.)

BOERLIN, Albert A. *Art, Des & LtEng.* d. 1930. He was with Western BNCo about 1871. In 1905 Boerlin, together with others at WestBNCo, joined George W. Goldsworthy, Sr., who left the Chicago company to found the Republic BNCo in Pittsburgh. Boerlin joined American BNCo, perhaps in 1942, when RepBNCo and Security BNCo merged.

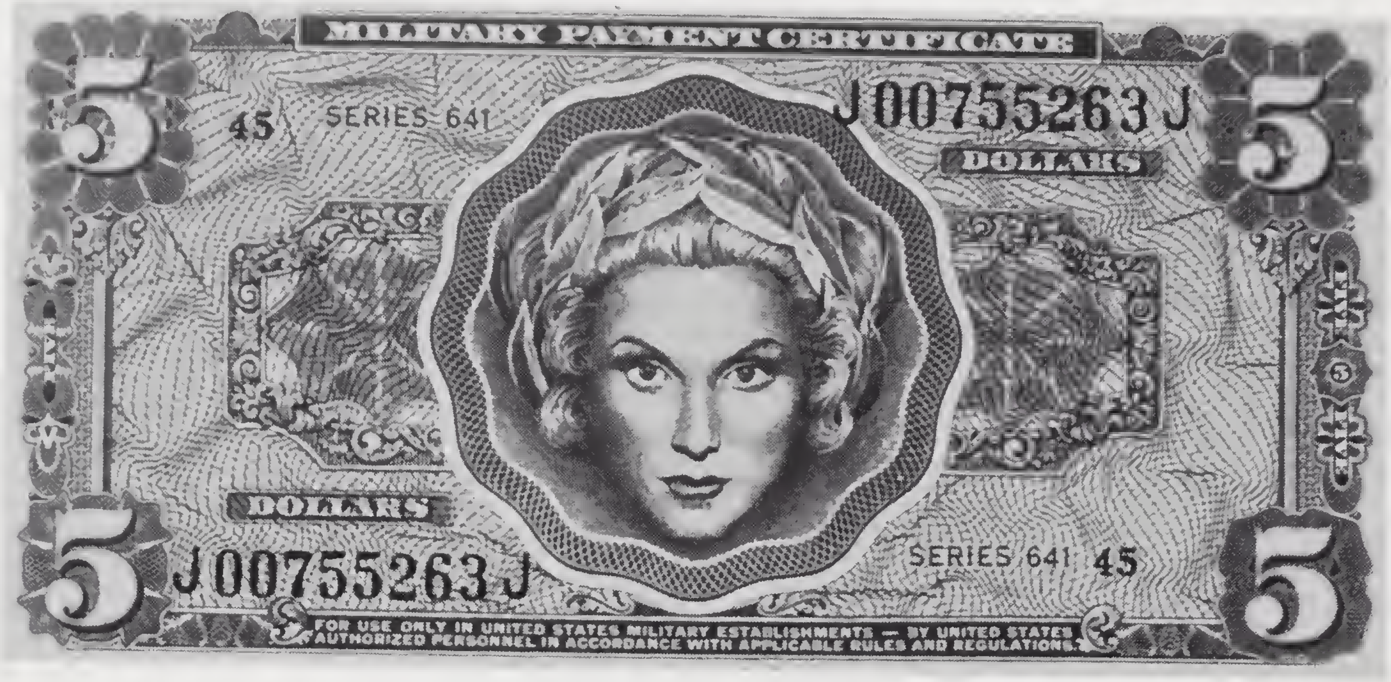
BOGARDUS, James. *D-S & Eng.* b. Catskill, NY 4 Mar. 1800, d. Catskill, NY 13 Apr. 1874. He invented a transfer machine for reproducing bank notes from separate dies; he also invented a medallic ruling machine. Bogardus won a competition over 2600 others to produce adhesive postage stamps in England in 1839.

BOILY, _____. *ScrpEng & StEng.* He worked for Asher B. Durand in the 1820s. Boily's father was a painter.

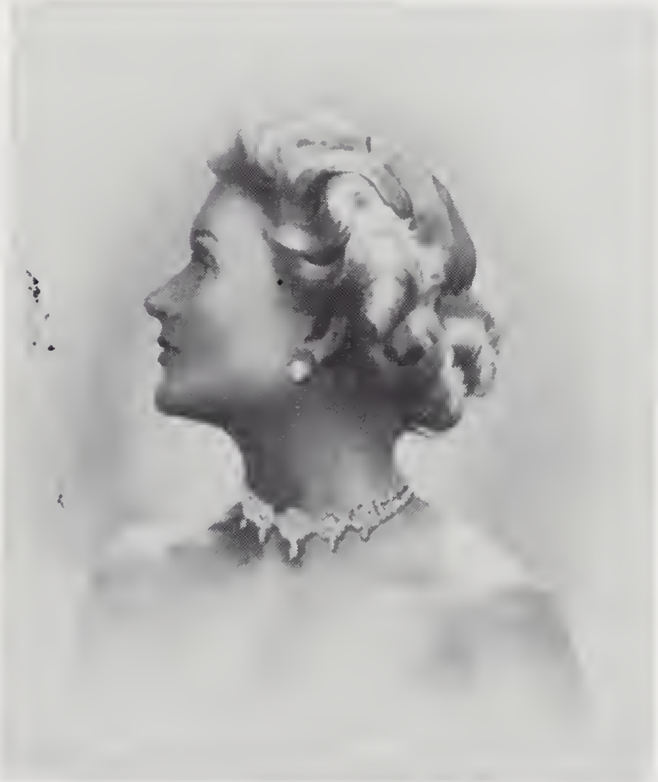
BOLLER, Edmonia. *Pr Asst.* This printer's assistant was employed at the Bureau of Engraving and Printing ca. 1914.

BOLTON, J.B. *Scrp & LtEng.* He was in Boston in 1841 employed by D. Kimberly.

BOOTH, T. Dwight. *Eng.* He was apprenticed as a bank note engraver in Albany, NY, where he was probably born. From 1840 to 1842 Booth served as assistant to J.F.D. Prud'homme. He engraved in Cincinnati as late as 1885, then retired to NYC in 1857.

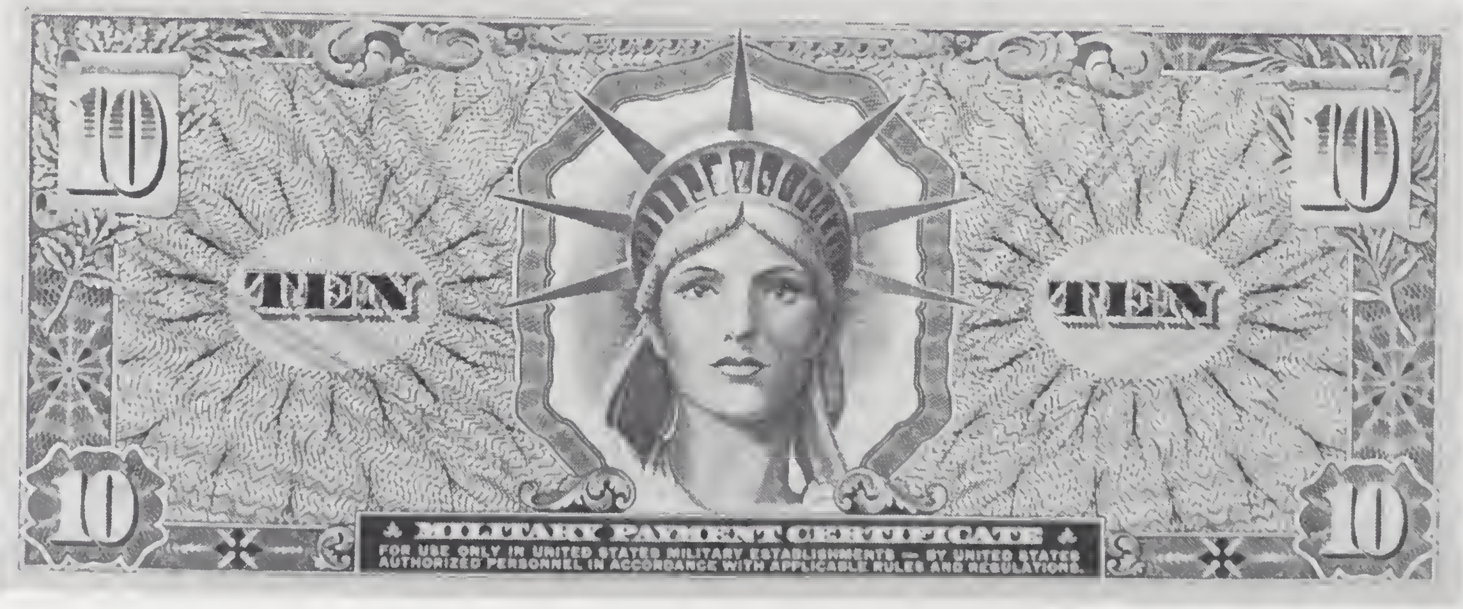

MILITARY PAYMENT CERTIFICATE
5
45
SERIES 641
J00755263J
DOLLARS
FOR USE ONLY IN UNITED STATES MILITARY ESTABLISHMENTS — BY UNITED STATES AUTHORIZED PERSONNEL IN ACCORDANCE WITH APPLICABLE RULES AND REGULATIONS.

Laura, MPC $5, Series 641, eng. R.M. Bower.



Original art for MPC $1, Series 591.

Edwin H. Blashfield


10
TEN
MILITARY PAYMENT CERTIFICATE
FOR USE ONLY IN UNITED STATES MILITARY ESTABLISHMENTS — BY UNITED STATES AUTHORIZED PERSONNEL IN ACCORDANCE WITH APPLICABLE RULES AND REGULATIONS.

Liberty, MPC $10 (back), Series 641, eng. R.M. Bower.

BOTTOMLEY, Robert. *Des.* He began his apprenticeship at American BNCo on 28 March 1929. Due to lack of work he was let go on 12 July 1934.

BOURKE, D. *LtEng.* He was employed at American BNCo from Oct. 1904 until July 1934.

BOURKE, Edward Francis. *LtEng.* b. 28 Oct. 1852, d. Brooklyn, NY 16 Mar. 1916. He probably engraved for the National BNCo before he joined American BNCo on 14 Jan. 1870, where he remained for 45 years.

BOURKE, J. *PEng.* He was employed at American BNCo and is credited with the *Eagle* on the following stock certificates: Boston Personal Property Trust; Garrison Securities Co.; Shawmut Association.

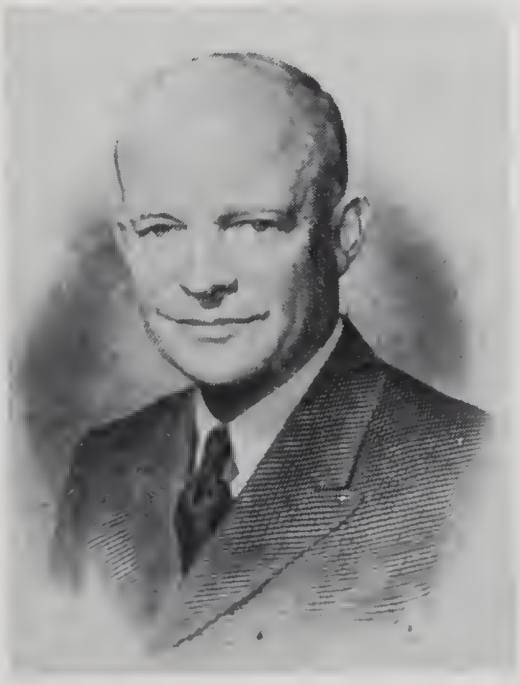
BOWEN, Abel. *Des & Eng.* b. Sand Lake Village, Greenbush, NY 1790, d. Boston, MA 1850. He first engraved in wood as early as 1811. Bowen was working as a printer in Boston in 1816. He probably began to engrave on copper the following year. In 1821 he was in business with copperplate printer Alexander McKensie who published *Shaw's History of Boston*, illustrated by Bowen. Bowen resided at 4 Washington St. in Boston where, in 1833 he designed and engraved multi-colored, cycloidal backs for bank notes. Some of his designs were used by the New England BNCo. Features similar to those of Bowen's designs had been developed in England by William Congreve. With John C. Crossman and Alonzo Hartwell, Bowen established the American Engraving and Printing Co.; it later became the Boston Bewick Co.

BOWER, Richard M. *PEng.* b. Harrisburg, PA 27 June 1917. Educated in Harrisburg, he studied at the Corcoran Gallery School of Art, in Washington, DC. Bower began as a pantograph operator at the Bureau of Engraving and Printing in 1943. His engraving apprenticeship under Carl T. Arlt began on 2 Nov. 1946; on the same date in 1947 he was appointed as a picture engraver. Bower served in a supervisory position for eight years before retiring on 30 June 1972 from the Bureau of Engraving and Printing, where he engraved about 90 postage stamps and the duck stamps for 1949-52, 1955-57, and 1961-63. He also engraved the portrait on the stock certificate for Entenmann's Inc.

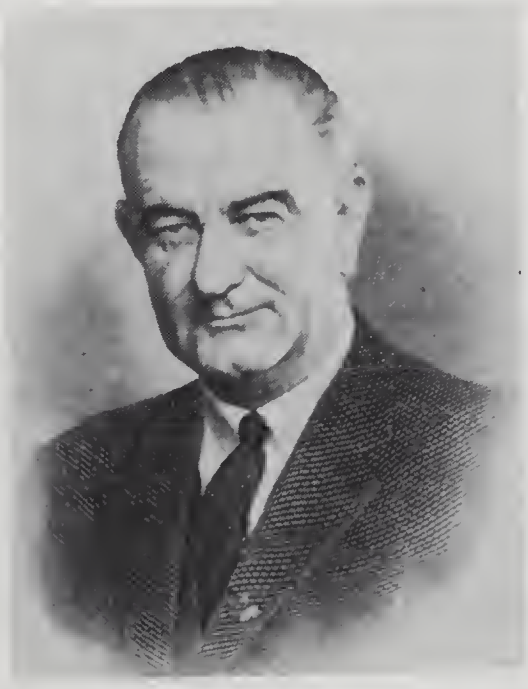
Military Payment Certificates

Female Profile, Series 591, $1, S-B57.	Liberty, Series 641, $10 (back) S-B73.	Laura, Series 641, $5, S-B72.

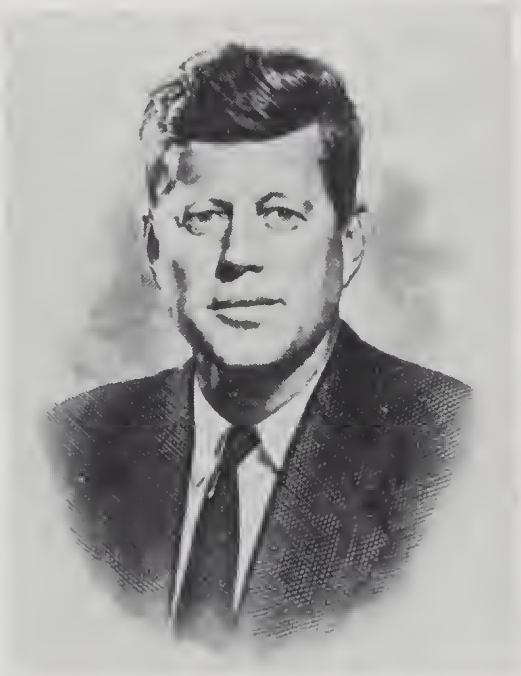
Official, Small Presidential Portraits



Eisenhower, Dwight D.

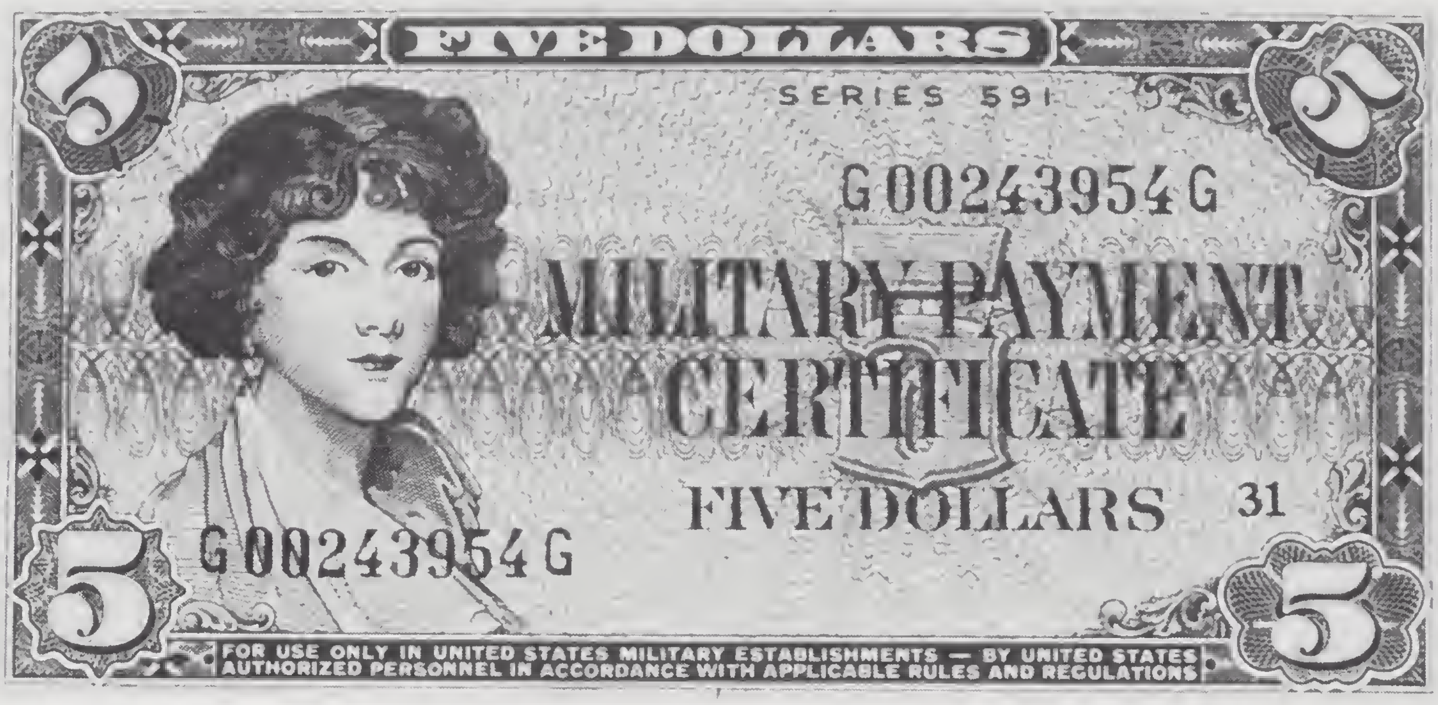


Johnson, Lyndon B.

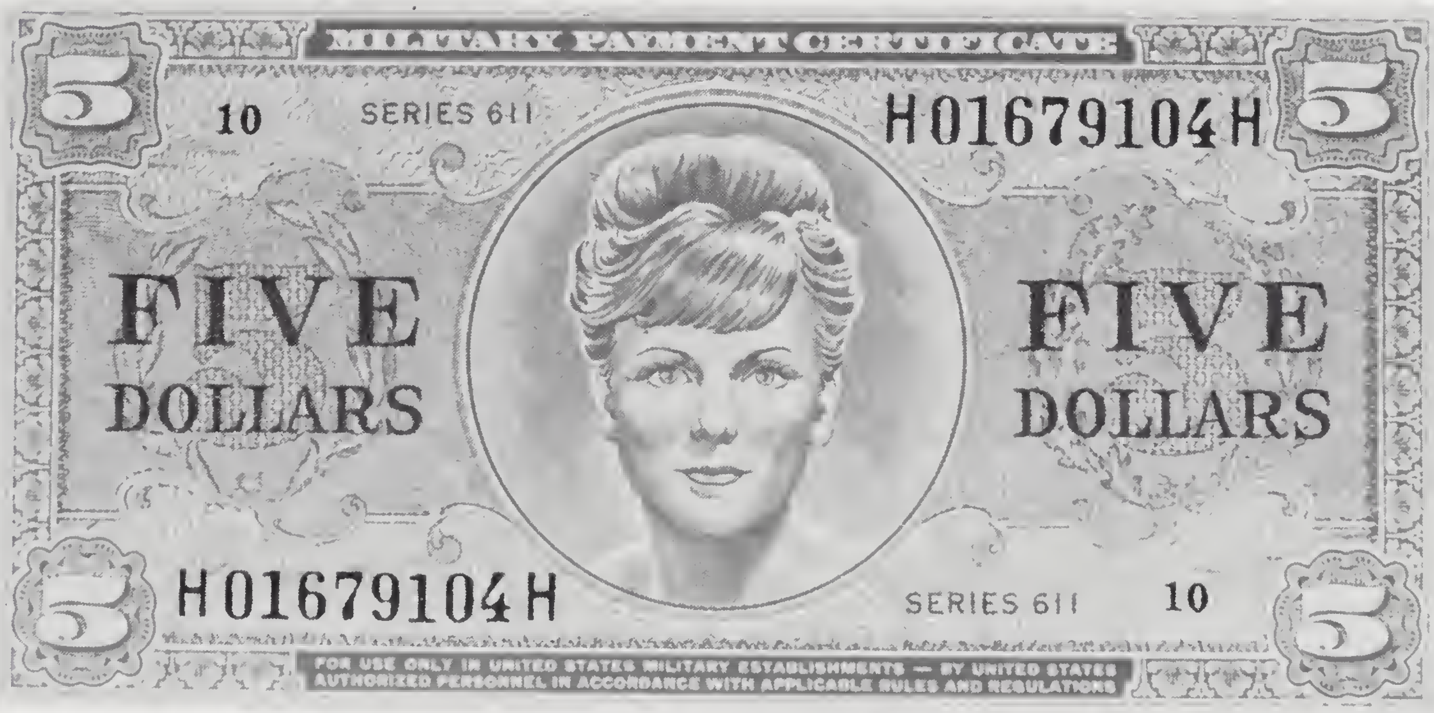


Kennedy, John F.

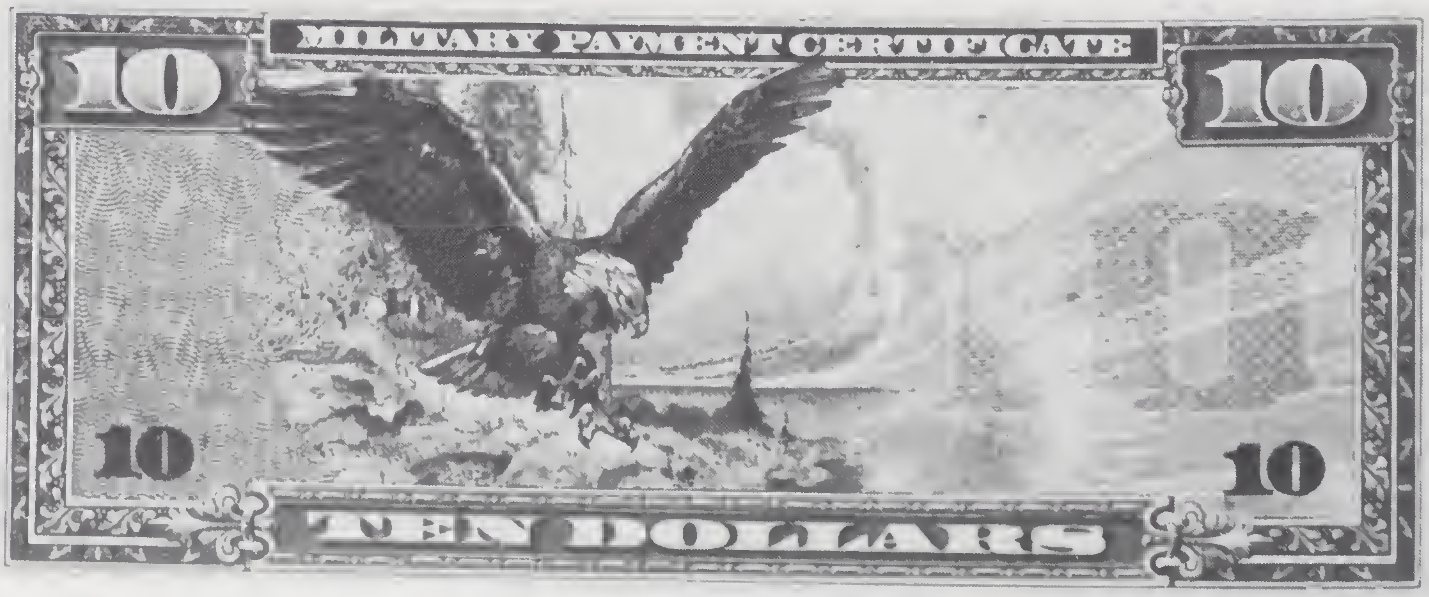
Engravings by Charles Brooks


FIVE DOLLARS
SERIES 591
G 00243954 G
MILITARY PAYMENT CERTIFICATE
FIVE DOLLARS
31
G 00243954 G
5
FOR USE ONLY IN UNITED STATES MILITARY ESTABLISHMENTS — BY UNITED STATES AUTHORIZED PERSONNEL IN ACCORDANCE WITH APPLICABLE RULES AND REGULATIONS

Ann Izard, MPC $5, Series 591.


MILITARY PAYMENT CERTIFICATE
10
SERIES 611
H 01679104 H
FIVE DOLLARS
FIVE DOLLARS
H 01679104 H
SERIES 611
10
5
FOR USE ONLY IN UNITED STATES MILITARY ESTABLISHMENTS — BY UNITED STATES AUTHORIZED PERSONNEL IN ACCORDANCE WITH APPLICABLE RULES AND REGULATIONS

Female Head, MPC $5, Series 611.



Eagle, MPC $10 (back), Series 692.

BOYD, Benjamin. This counterfeiter learned to engrave under his father and James Edward Smith, both legitimate engravers. Boyd engraved a plate for an 1863, $50 USN from which 6,000 pieces were printed.

BOYD, G. He was employed as a photolithographer at the Bureau of Engraving and Printing as late as 1951.

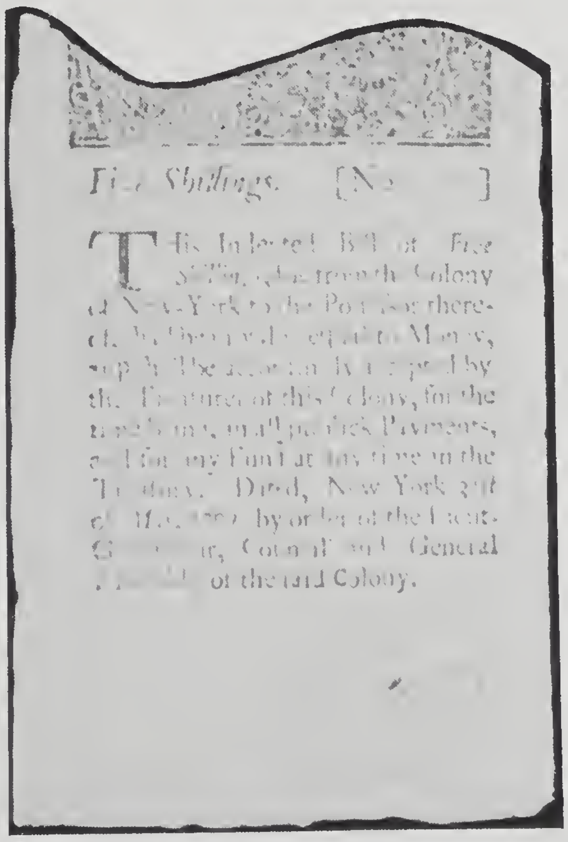
BRADBURY, WILKINSON & Co., Ltd. This British company was purchased by American BNCo in 1903 and sold to Thomas De La Rue about 1987.

BRADFORD, _____. *Eng.* He engraved for Rawdon, Wright & Hatch about 1812.

BRADFORD, Andrew. *Pr.* b. Philadelphia ca. 1676, d. NYC 23 Nov. 1742. He learned the art of printing from his father, William Bradford, with whom he had a one-year partnership before returning to Philadelphia ca. 1712. Until 1723 Bradford was the only printer in Pennsylvania; he published *The American Mercury,* the first newspaper in Pennsylvania. For a while he was postmaster. Bradford printed bills dated 1733 for New Jersey and bills dated 1729 for Pennsylvania.

BRADFORD, F.S., Jr. He did design work for American BNCo during the early 20th century. One of his designs is *Agriculture* (eng. S. Smith), seen on the Interstate Bakeries Corp. stock certificate (1964) and the Republic of Columbia bond (1940).

BRADFORD, Louis E. *LtEng.* b. Washington, DC 1 Jan. 1875. He was with the illustration section of the Geological Survey from 31 May 1906 until his appointment to the Bureau of Engraving and Printing as an assistant designer on 14 Dec. 1908; he became an engraver on 16 July 1918. Bradford retired from the Bureau of Engraving and Printing on 31 Jan. 1945.



The first denomination printed for New York by William Bradford.

BRADFORD, William. *Pr.* b. Leicestershire, England 20 May 1663, d. NYC 23 May 1752. He served his apprenticeship under Andrew Sowle, whose daughter he married before coming to America in 1682; they settled near Philadelphia. In 1690 Bradford and William Rittinghuysen established the first paper mill in British America at Roxborough Paper-Mill Run, PA. George Keith wrote pamphlets in 1690 and 1692 that were printed and sold by Bradford. A portion of the divided Quaker community harassed Bradford and had him arrested

This piece of art by F.S. King pictorializes the life of William Bradford.

for not having his name on the controversial, printed items. During the trial, "the grand jury sat by them, overawing and threatening them, when they spoke boldly in their own defence, and one of the jury wrote down such words as they disliked...." (Thomas 352). The evidence was based on the frame that held the type.

> ...the jury, not being acquainted with reading backwards, attempted to raise it from the plank on which it was placed, and to put it in a more favorable situation for inspection; and that one of them assisting with his cane, pushed against the bottom of the types as the form was placed perpendicularly, when, like magic, this evidence against Bradford instantly vanished, the types fell from the frame,...formed a confused heap, and prevented further investigation (Thomas 354-355).

The Bradfords moved to New York City where William became the first printer in that city. He was printer to the British Crown for most of the time from 1693-1743. He printed the first NY currency (1709) and served as the first printer for NJ (1703-1733). In 1725, Bradford founded the *Gazette*, New York's first newspaper. He retired in 1742, but his apprentice, James Parker continued his work. Bradford is buried in the churchyard of Trinity Church in NYC, where he had served as vestryman from 1703-1710.

BRADLEY, James A. *ScrpEng & LtEng.* He was the brother of T.A. Bradley and was employed at the Security BNCo ca. 1930. J.A. Bradley served as general manager of SecBNCo.

BRADLEY, Thomas Augustus. *LtEng, OrEng & ScrpEng.* b. Philadelphia., PA 1 Dec. 1859, d. Lansdowne, PA 17 Jan. 1941. At 16 he was apprenticed at the William H. Hoskins Stationery & Engraving Co. Bradley was employed by American BNCo in Philadelphia and also the New York BNCo. Following free-lance work he returned to Philadelphia to establish the T.A. Bradley BNCo. (See Security BNCo.)

BRADWAY, John. *Des.* b. Baltimore, MD 16 Dec. 1938. He received a BFA in 1967 from the Maryland Institute College of Art. Mr. Bradway was employed at Historical Times, Inc. in Harrisburg, PA where he produced *American History Illustrated* and *Civil War Times Illustrated.* He did a variety of free-lance work, including art work for the Franklin Mint. In 1980 Mr. Bradway joined the USBNCorp where he has contributed to the designs of hundreds of bonds and certificates.

BRASSEL, I. He was employed in the Transfer Division of American BNCo in 1911.

BRAUN, John. He was employed as an engraving-prover at American BNCo from 20 February 1890 until July 1934.

BREDELL, Baldwin S. He settled in Philadelphia and worked as an engraver for E.A. Wright & Co. Bredell and Arthur Taylor produced a counterfeit $100 plate (H1220 & 1221) for William Jacobs. While in Moyamensing Prison Taylor and Bredell produced a counterfeit $20 plate and 150 notes; the notes were smuggled out and circulated.

BREWSTER, Abel. *Inv.* He was a contemporary of Jacob Perkins and claimed that Perkins appropriated some of his ideas concerning the production of bank notes with uniform, ornamental parts. In 1809 Brewster moved to Philadelphia and became affiliated with Murray & Draper. "There developed serious disagreements over the amount of payment for his tools and patents, resulting in his withdrawal and the publication in 1815 (in Hartford, Conn., apparently his home town) of a rather vitriolic 40-page pamphlet giving the details of his unhappy relations with the above firm, particularly with Murray." This introductory quote and the contents of another pamphlet published by Brewster in 1810 in which he discusses methods of plate production that would discourage counterfeiters can be seen in *The EPJ* 1965, No. 88, p. 157 and 1966, No. 89, p. 35. John Draper, William

Kneass, Benjamin Tanner and U.S. Mint engraver Robert Scot were among those who endorsed Brewster's method. During 1817-1818 he was engaged to produce dies for the Hartford Graphic Co.

BRIDERMAN, Charles D. *ScrpEng.* He was employed at the Philadelphia facilities of American BNCo.

BRIDGMAN, Frederick Arthur. *Art & Eng.* b. Tuskegee, AL 10 Nov. 1847, d. France 13 Jan. 1928. He served as an apprentice at American BNCo in 1864 and 1865. He attended Brooklyn Art School and the National Academy of Design. Bridgman studied with Gérôme at the École des Beaux Arts, Paris from 1866-1871. *Young America* on American Stave & Cooperage stock certificate (189_) is attributed to him. *Florence*, co-engraved with James Bannister, appears on Argentina 50 pesos, PS1503.

BROCKWAY, William E. "Long Bill." b. Essex, CT 3 Feb. 1822, d. New Haven, CT 1 Dec. 1920. Orphaned at infancy, his given name was William E. Spencer. He was apprenticed to a jeweler-engraver in New Haven and audited classes in electro-chemistry at Yale. In 1856 Brockway was sent to Sing Sing Prison for counterfeiting; he served five years. Living as Col. Spencer in Philadelphia, after his release from prison, he acted as the distributor of 50¢ FC (H1609-1623). He was the brains behind the counterfeiting of the $1,000, 7.3% interest-bearing Treasury notes (H1401), engraved by Charles H. Smith and the 6% bonds (HX125D or HX128J), engraved by William H. Smith. Brockway is buried at the Grove Street Cemetery in New Haven, where many Yale graduates are buried.

BROOK(E), Lloyd B. *Eng. & Trans.* b. MD 1856. He joined the Bureau of Engraving and Printing on 16 Sept. 1872 as an apprentice machinist; Brooke later became plate cleaner and transferrer; on 1 July 1887 he was named as an engraver.

BROOKS, Charles A. *PEng.* b. Washington, DC 26 Apr. 1905. He was educated in Philadelphia and was apprenticed at E.A. Wright Co., Philadelphia where he engraved from Oct. 1920 to Feb. 1925. Mr. Brooks was a self-employed engraver from Feb. 1928 to 6 July 1937. He joined the Bureau of Engraving and Printing on 23 March 1938 and remained there until 29 Aug. 1947. Mr. Brooks moved to the Security BNCo on 30 Aug. 1947 but rejoined the BEP on 17 May 1948, where he remained until retirement on 30 December 1966. He engraved nearly 200 postage stamps for the BEP.

Military Payment Certificates

Eagle (art by W.A. Roach), Series 692, $10 (back), S-B103.

Female Head (art by C. Chickering), Series 611, $5, S-B65.

Izard, Ann (by Gilbert Stuart), Series 591, $5, S-B58.

Pilot, Series 681, $1, S-B93.

Internal Revenue Stamps

Boutwell, George S. (Rectified Spirits for Puerto Rico).
Guthrie, James.
Walker, Robert J.

Large, Official Presidential Portrait

Kennedy, J.F.

BROOKS, George. *LtEng.* He was employed at Elliot BNCo and later had his own business. George Brooks is the father of Charles Brooks.

BROWN, Dennis. *LtEng.* b. Alexandria, VA 17 Jan. 1943. He was employed at the United States BNCo from 1967 to 1971, Federated BNCo from 1971 to 1974 and joined the Bureau of Engraving and Printing in 1974. Mr. Brown has engraved many U.S. postage stamps in addition to miscellaneous work at the BEP.

BROWN, George. He was employed at American BNCo from 20 Sept. 1909 until 1 August 1939. Brown returned, briefly perhaps, on 5 Dec. 1940.

BROWN, Hy. He was foreman of the Printing Dept. at the Boston office of American BNCo in 1861.

BROWN, M.B. The name of this printing company is found on the tickets for the Democratic National Convention, 24 June 1924; the portrait of T. Jefferson is intaglio-engraved.

BROWN, William J. This respected and prolific, picture engraver was employed at American BNCo as early as 1882 and was engraving as late as 1920.

Foreign Bank Notes

Bolivia
Viaduct & Mountains (eng. with E. Loizeaux), 50 bolivianos (back), PS176.
Brazil
Building, 10 mil reis, P33.
British Guiana
Steamship, $5, PS130.
Canada
Fisherman (eng. with C. Skinner), $20, PS629.
Harvesting (portion of), $20 (back), PS1962.
Maissoneuve Monument, $10-$100, PS797-800 (backs).
Multi-tiller, $5, PS190.
Railroad Crossing, $5, PS1539.
Sault St. Marie Locks, $4, P25.
Chile
Building, 500 pesos, P25.
China
Anglican Cathedral, Shanghai, $10, P147 & P147A.
Boats in Harbor, $1-$100, PS123-126.
Building, $1, $5 & $10, P30-32.
Confucius Temple-Canton, $5, PA17 & PA77.
Eagle and Globes, $1-$100, PS401-422.

Foreign Bank Notes

(continued)

China

Temple of Heaven, $100, P32B.

Colombia

Capitolio Nacional, 10 pesos (back), P324.

El Salvador

Arms of El Salvador (eng. with G. Hanweber), 50 & 100 pesos (backs), PS106 & PS107.

Guatemala

Three Mountains, 25 pesos (back), PS118.

Hawaii

Iolani Palace, $5, P6.

Mexico

Banco Minero, 1,000 pesos (back), PS169.

Cathedral, 5 pesos (back), PS338 & 20 pesos, PS354.

Mexico

Courtyard, 50 pesos, PS688.

Dogs on River Bank, 5 pesos (back), PS429.

Government House, 10 pesos, PS425.

Government Palace, 100 pesos, PS385.

Harbor Scene, 5 pesos, PS437.

Monument, 50 pesos, PS374.

Monument (eng. with J. Guilfoyle), 20 pesos, PS383.

Theater, 50 pesos, PS355.

Village, 10 pesos (back), PS306 & PS409.

Paraguay

Municipal Theater, 50 pesos, P7 & P27.

National Congress, 50 pesos, P35 & P66.

Venezuela

Dockside (ship & train), 20 bolivares, PS232.

Corporate Bonds

Alamo, San Antonio & Gulf Shore RR Co. (1894).

Banco Nacional de Cuba.

Boat & Mangroves, Lake Drummond Canal & Water Co. Capitol Bldg., State of Rhode Island (1894).

Chamber of Commerce Building, New York (1901).

Gathering Sugar Cane, Cuba Sugar Cane Co. cp. bd. (1906).

Locomotive, St. Louis-San Francisco Rwy 6% mort. (1904).

Locomotive (eng. with R. Berry), Albany & Susquehanna RR Co. (merged with Delaware & Hudson RR) 4½% mort. (1908).

Locomotive (in oval), Duluth, Missabe & Northern Rwy $1,000 5% gold bond (1906).

Locomotive Switching, Catawba Valley Rwy 5%(1906).

Lumber, (eng. with C. Dawson) on cp. bds: Hardwood Timber Co. (1928): Mobile & Ohio RR (1927).

Manitoba (symbol of), Province of Manitoba 9¼% reg. debenture (1907).

Mount Whitney, City of Los Angeles Water Works (1907).

Newark Gas Co. Building, Newark Gas Co. 6% 1st mort. cp. bd. (1895).

Pagoda: American China Development Co. (1902); Republic of China $1,000 6%.

Petroleum Storage, Philadelphia Co. 5% 1st mort. & Collateral Trust cp. bd. (1899).

Railroad Cars & Storage Tanks, U.S. Steel Corp. 5% cp. bd. (1901).

Railroad Crossing, Pittsburgh, Shawmut & Northern RR Co. 4% 1st mort cp. bd (1902).

Railroad Depot, Boston & Albany RR Co. improvement bd. (1912).

Railroad Depot (eng. with C. Skinner), Beech Creek Extension RR Co. 4% (1905).

Reapers, The (small heads, 22 mm high), cp. bds: Czechoslovakia Republic; Francisco Sugar Co.; International Cotton Mills Corp.; Pillsbury Flour Co.

Ship in Dry Dock, Robins Dry Dock and Repair Co. 5% 1st mort. cp. bd. (1911).

Ships Loading, Gulf & Ship Island RR Co. 5% 1st mort. refund. & term. cp. bd. (1902).

Sloane, W. & J., Building, W.&J. Sloane 6% reg. debenture (1891).

Steamship, American Hawaiian Steam Ship Co.

Steamship, Old Dominion Steam Ship Co.

Steamship, Boston, Cape Cod and New York Canal Co. 5% 1st mort. cp. bd. (1910).

Steel Plant & Freight Cars, U.S. Steel Corp.

Streetcar Scene, Kansas City Rwys Co. 5% (1907).

Streetcar Scene, Twenty-Third St. Rwy Co. 5% (1909).

Thirst No More (eng. with R. Savage), Spring Valley Water Co. (1903).

Train, Pennsylvania RR.

Train Arriving (eng. with Charles Skinner), St. Louis & San Francisco RR, New Orleans Extension, 4% cp. bd. (1902).

Trains & Ships: Atlantic Coast Line RR Co. 4% Louisville Collateral (1902); St. Paul & Duluth RR Company 4% 1st consol. mort. cp. bd. (1898).

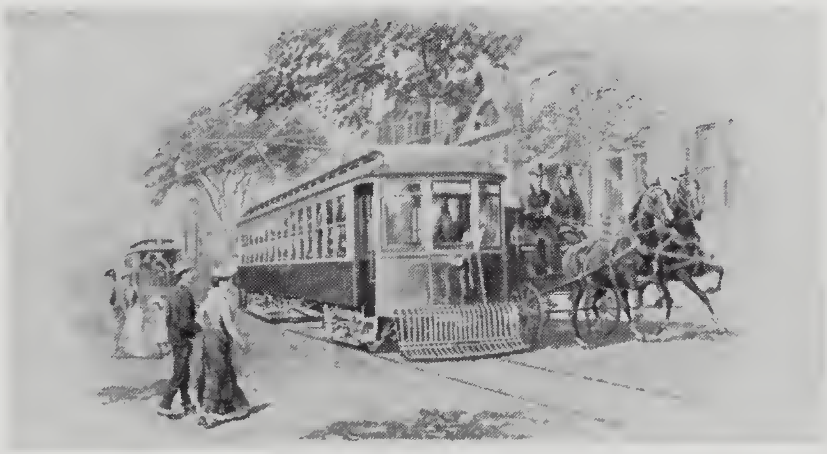
Trains, Coming & Going, St. Louis Iron Mountain & Southern, 6% 1st mort. (1912).

Union Station, Terminal Railroad Association, St. Louis cp. bd.

Wharf Scene, Brooklyn Wharf & Warehouse Co.

Stock Certificates

Bananas (finished by E. Gunn and altered by L. Delnoce, Jr.), United Fruit Co. (1920).
Bank Safe, Diebold, Mosler, Damon Co. (1892).
Building, Home Life Insurance Co. (1894).
Building, Morristown, NJ Transit Co.
Docking the Ship (eng. with C. Skinner), International Mercantile Marine Co.
Eagle & Two Globes, International Banking Corp.
Electric Autos, Illinois Electric Vehicle Co.
Globe, Telephone, Telegraph Cable Co. (1900).
Harvesting, Kolb Bakery Co. (1906).
Hauling Sugar Cane, Guantanamo Sugar Co.
Locomotive, Halls Signal Co. (1892).
Locomotive Switching, Kansas City & Ft. Scott & Memphis Rwy Co.
Oil Derrick & Tank, American Petroleum Co.
Open Hearth Steel Mill, Sparta Foundry, (1929).
Panorama, Hudson & Manhattan RR.
Petroleum, Charles Toppan Petroleum Co. (1897).
Royal Gorge, Denver & Rio Grande RR (1908).
Ship in Dry Dock, William Cramp & Sons Ship & Engine Building Co. (1900).
Ships Loading, Gulf & Ship Island Co.
S.S. Priscilla, NY, New Haven & Hartford RR (1907).
Trolley Car, Orange and Passaic Valley Rwy Co.



Trolley Car Street Scene (eng. with R. Savage): Grand Valley Rwy Co. (1909); Toronto Rwy Co. (1910); Philadelphia Traction Co.; North Texas Traction Co.
U.S. Mortgage Company Building: Mutual Insurance Co.; Newark Gas Co. (1895).
Wall St. Scene, Barber Asphalt Pavement Co.; Dominick Fund.
Waterfront Scene, National Sugar Refining Co.
Works at Newark, Murphy Varnish Co.

Stamps

Republic of Panama
Balboa Taking Pacific, 2¢, SA27.

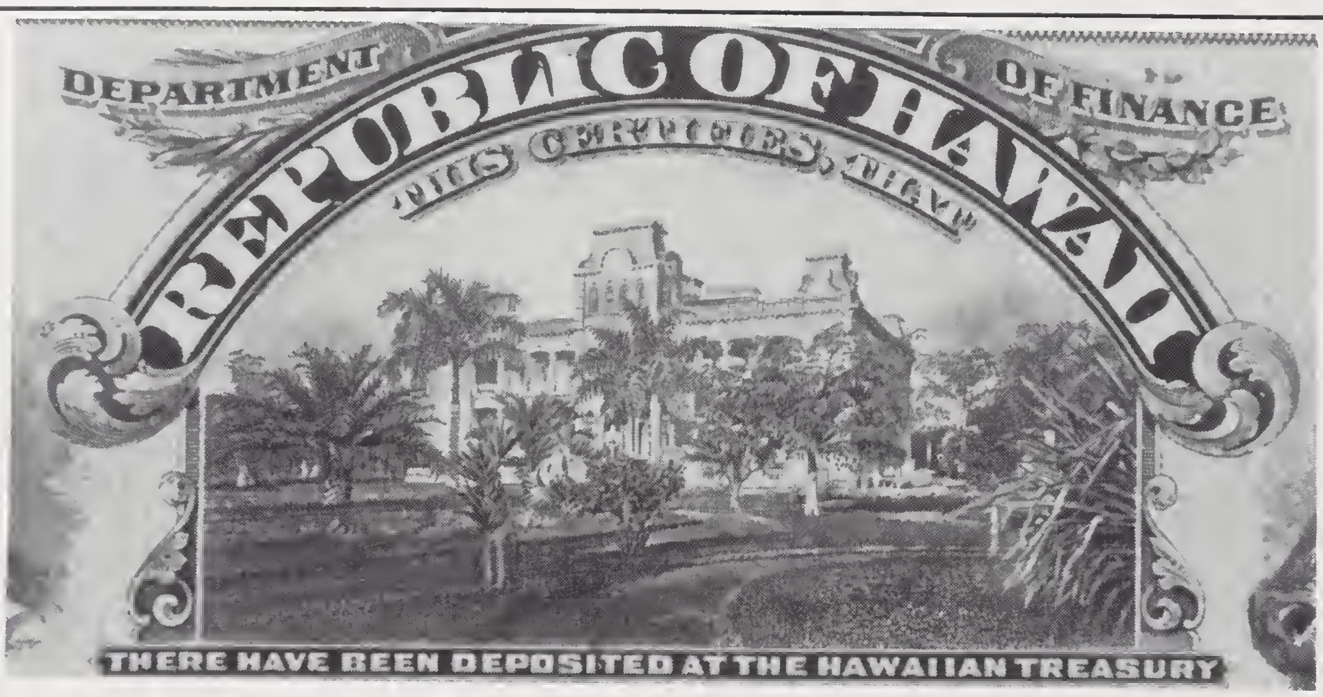
Peru
Santa Beatrix Race Track, 1 sol, A43.

Miscellaneous

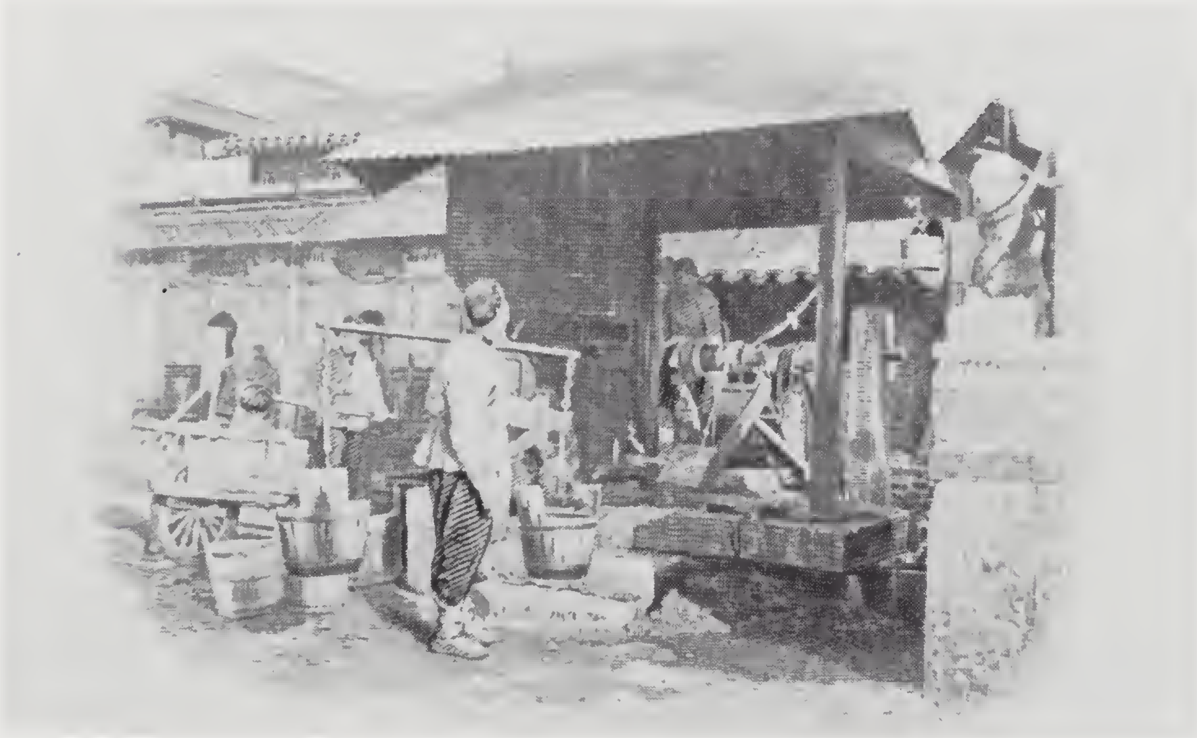
Building, Greenwich Savings Bank circular (1900).
Chinese Water Carriers, use uncertain.
Dragons, Ningpo Commercial Bank, Ltd., Shanghai (1915), use uncertain.
Germania National Bank Building, bank checks (1896).
House, Home Life Insurance Co. policy.
Liberty Bank Building, bank statements.
Loading Sugarcane (1894), use uncertain.
North Dakota Arms (1899), use uncertain.
Rhode Island State House, RI 3% Third State House Construction Loan cp. bd. (1901).
South America (map on globe), New York Life Insurance Co. policy certificate.
South Carolina Arms (1893), use uncertain.
View of Amsterdam, Netherlands Life Insurance Co. policy.

BROWNE, Fred H. *ScrpEng.* He was employed at American BNCo from 28 May 1928 until 30 January 1931.

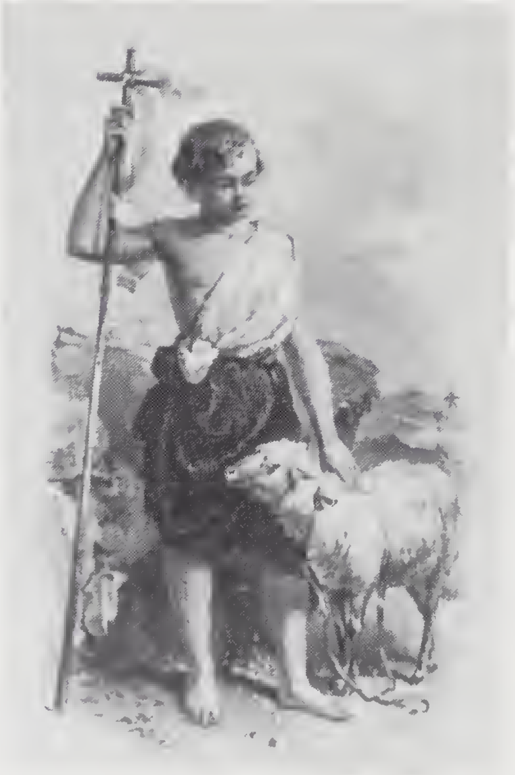
BRUEN, R.C. *Eng.* His Apprenticeship was served with Maverick & Durand. Bruen engraved book illustrations for W. Durell.



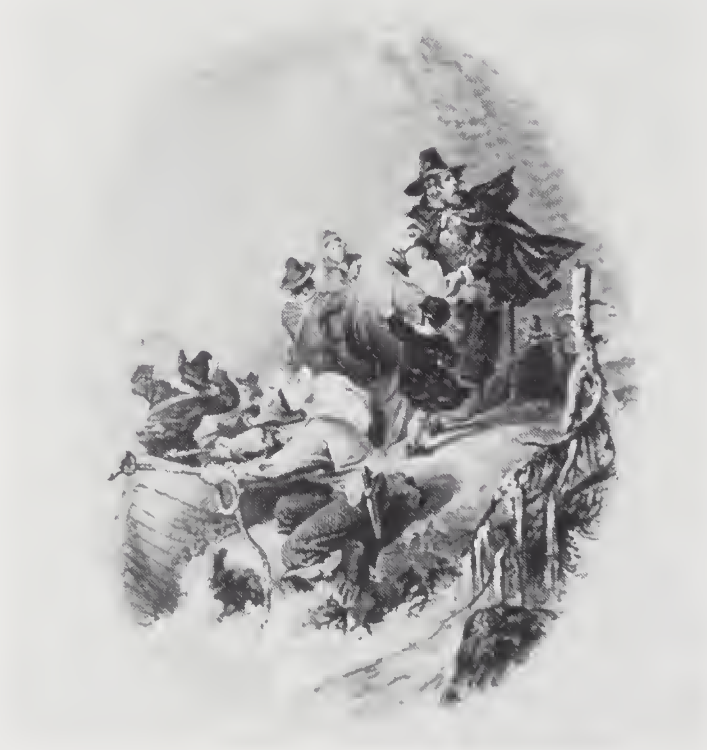
Iolani Palace, Hawaii P6, eng. William J. Brown.



Water Carrier (use uncertain), eng. William J. Brown.

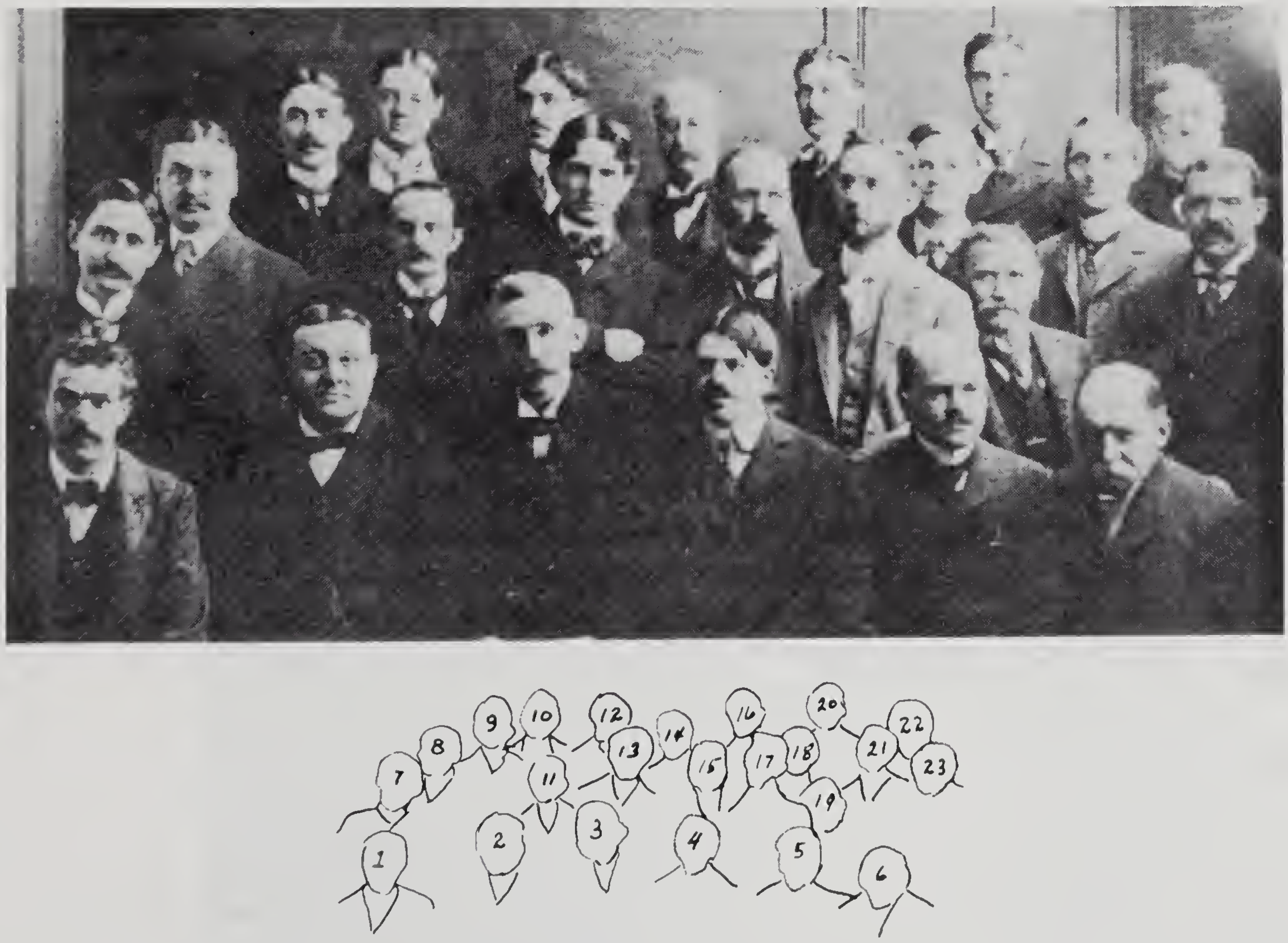


St. John the Baptist, Canada PS844, eng. Charles Burt.



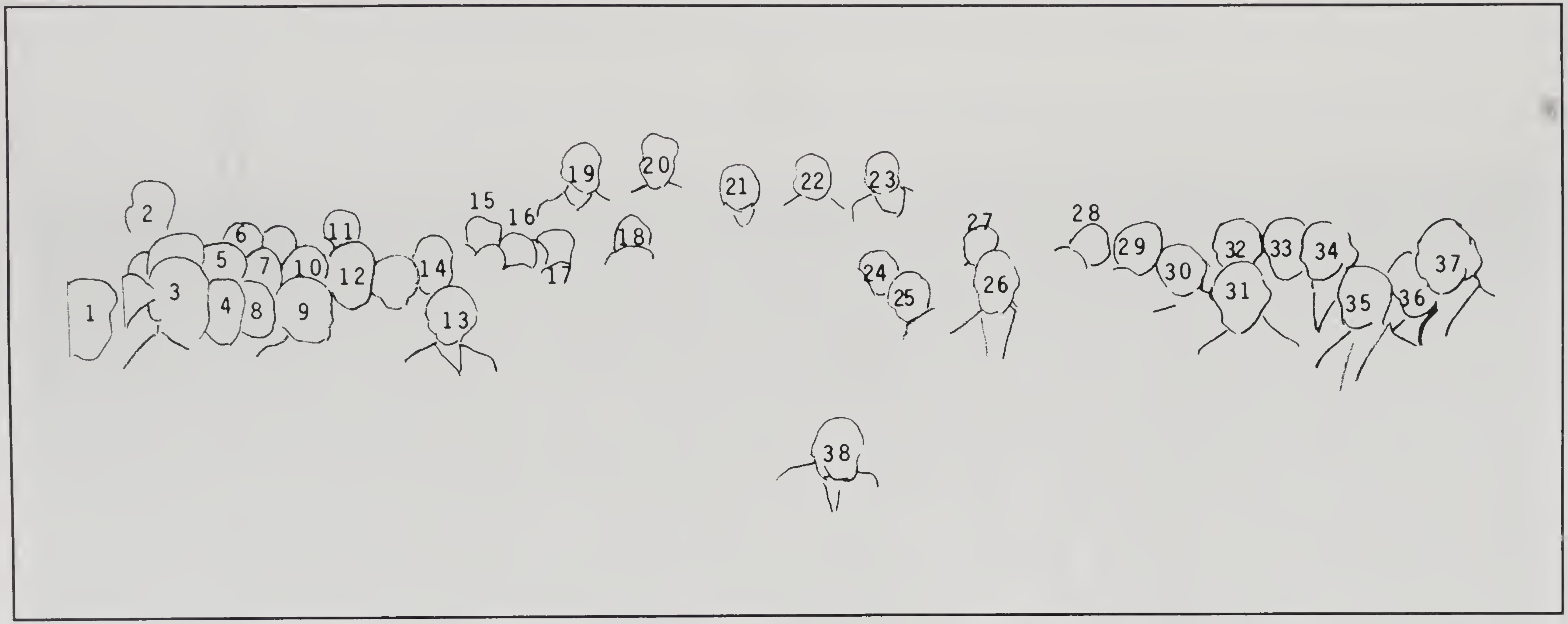
Landing of the Pilgrims, U.S. H29, eng. Charles Burt.

Siderographers at the Bureau of engraving and Printing about 1895. Standing, left to right: Lloyd B. Brook, Morris George, Joseph I. Griffith, R. Pentland, John A. Mooney, Frank Rowden (geometric lathe operator), O.H. Herlocker, C. Vermil, T. McKellar, John P. Perry, A. Abbott. Seated, left to right: Walter Doxon, George Wright, George R. Mason, and John Prender.



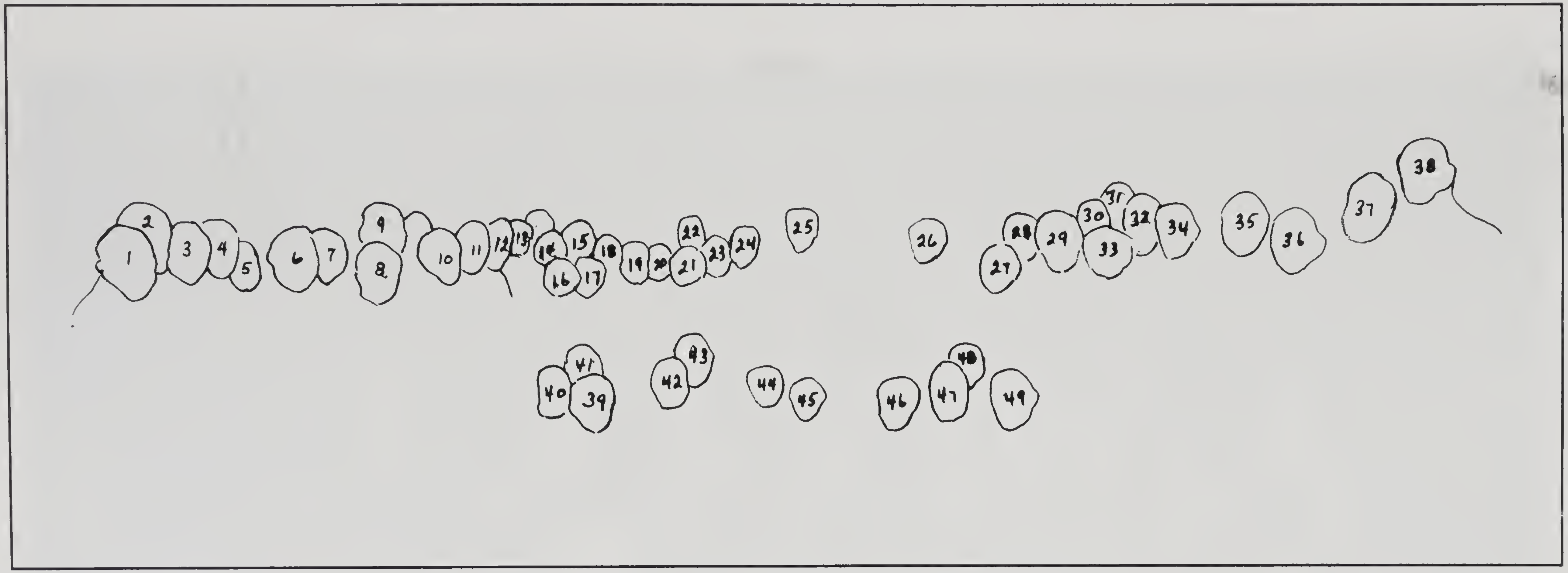
The Engraving Division at the Bureau of Engraving and Printing about 1895: **1** A.J. Marsh, **2** E.E. Myer, **3** M.W. Baldwin, **4** Frank Howe, **5** E.I. Schomable, **6** D.S. Ronaldson, **7** E.M. Hall, **8** G.F.C. Smillie, **9** Clarence K. Young, **10** R.O. Smith, **11** Louis S. Schofield, **12** Louis A. Hill, **13** F. Lamasure, **14** R.H. Warren, **15** E.M. Weeks, **16** H.L. Chorlton, **17** G.U. Rose, **18** E.G. Rose, **19** W.F. Lutz, **20** Lyman Ellis, **21** A. Wasserback, **22** R. Wright, and **23** W.F.B. Wall.

Employees of the Engraving Division at Bureau of Engraving and printing in 1943.



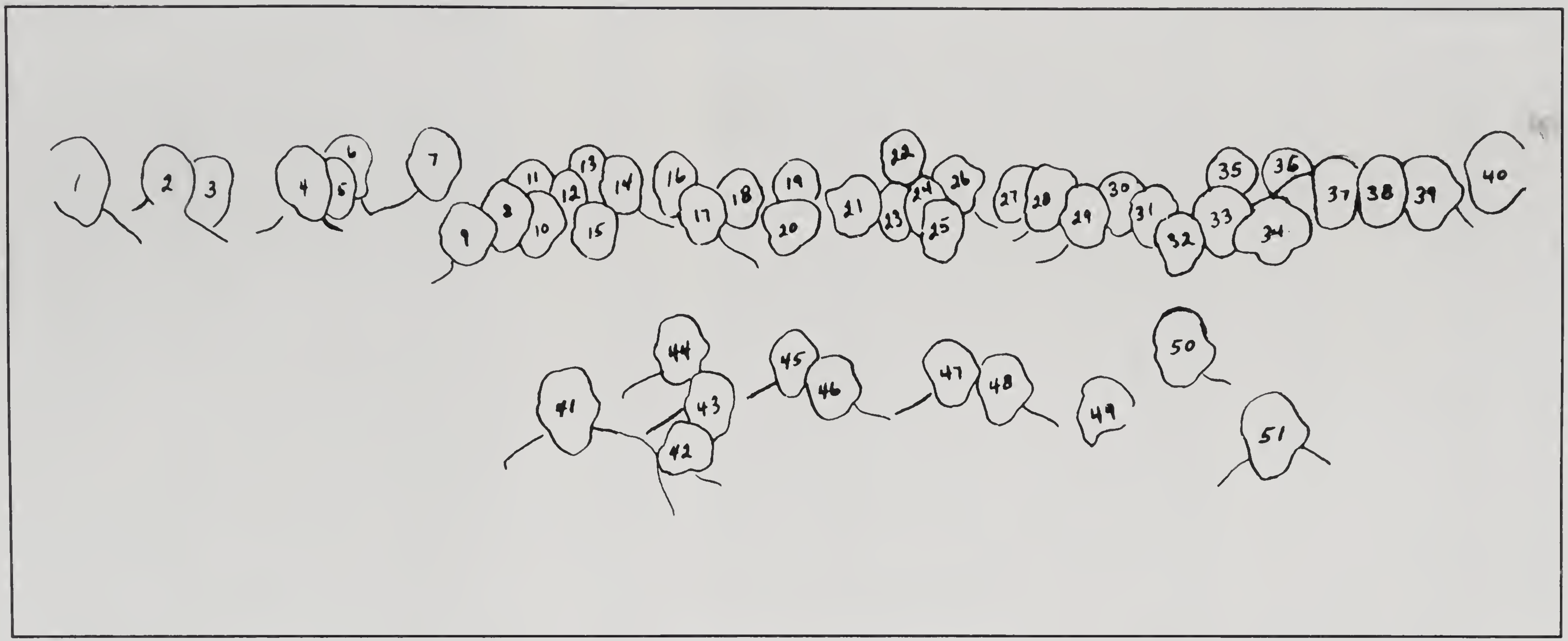
Individual identification: **1** Ted Hoffman (asst. foreman, lithography dept.), **2** Eguesto Ligi, **3** George Payne, **4** Walter Matthews, **5** J. Filgate, **6** Kenneth Wiram, **7** Victor McCloskey, **8** Arthur Dintaman, **9** John Rout (siderography foreman), **10** A. Fischer, **11** Matthew Fenton, **12** T. Linhous (electrolytic platemaker), **13** Mary E. Workman (office), **14** Andrew Black (siderographer), **15** Walter Barrett (plate finisher), **16** C. Thomas (electrolytic department supervisor), **17** Joseph Archer (plate hardner), **18** Frank Sharpless, **19** W. McCall (plate cleaner), **20** Richard Bower, **21** Herb Fichter, **22** David Loring, **23** T.L. Gug (platemaker), **24** Axel Christensen, **25** Bernard Bargune (lithographic platemaker), **26** Donald McLeod (asst. superintendent), **27** W.R. Burnell, **28** Kenneth Barrich, **29** (unidentified plate finisher), **30** G. Jacobs (plate finishing foreman), **31** Carl Arlt, **32** J. Staub (machinist), **33** James Vail, **34** George Boyd (photolithography dept.), **35** C.J. Butler (plate finisher), **36** William Schrage, **37** E. Dohaney (asst. foreman, electrolytic department), **38** Charles Marx (foreman photolithography dept.).

Employee Christmas party at the Bureau of Engraving and Printing in 1947.



Individual identification: **1** John Rout, **2** James Filgate, **3** C. Meves (office), **4** E. Smith (plate finisher), **5** Richard Jones, **6** R. Wurtz (plate finisher), **7** Charles Brooks, **8** J. Forrester (plate finisher), **9** J. Heffren, **10** J.L. Hachler, **11** Charles Smith, **12** John Edmondson, **13** J. Green (plate cleaner), **14** Carl Arlt, **15** M. Reynolds (office), **16** Mary E. Workman (office), **17** W. Hare (office), **18** Donald R. McLeod (eng. div. superintendent), **19** F. Adrian, **20** A. Christensen (asst. superintendent), **21** K. Humphries (office), **22** Frank Sharpless, **23** M. Raye (office), **24** W. Burnell, **25** George Gundersen, **26** George Payne, **27** E. Rannie (office), **28** G. Hunter (plate cleaner), **29** M. Hulvey (philatelic clerk), **30** F. Vorth (die finisher), **31** Kenneth Wiram, **32** L. Hull, **33** Z. Beall, **34** William Marks, **35** J. Shaffer (die finisher), **36** Arthur Dintaman, **37** Herb Fichter, **38** W. Barrett (plate cleaner), **39** Charles Chickering, **40** Robert Miller, **41** H. Holtzclaw (Director of BEP), **42** Victor McCloskey, **43** S. Dildine (stock control supervisor), **44** T. Farrell (office), **45** W. Knights (office), **46** D. Lorenz, **47** F. Baughman (plate vault foreman), **48** A. Black, **49** E. Marshall.

Employee Christmas party at the Bureau of Engraving and printing in 1951.



Individual identification: **1** H. Holtzclaw (Director of BEP), **2** J. Henlock, **3** Richard Jones, **4** George Payne, **5** R. Miller, **6** Kenneth Wiram, **7** Frank Sharpless, **8** A. Christensen, **9** Mary E. Workman (office), **10** H. Ware (office), **11** Egesto Ligi, **12** William Schrage, **13** C.R. Chickering, **14** Alvin Hall, **15** E. Rannie (office), **16** S. Dildine (stock control supervisor), **17** T. Slattery (Asst. Director), **18** A. Fischer, **19** J.L. Heffren, **20** D. Will (proof verifer), **21** C. Meves (office), **22** M. Fenton, **23** E. Dews (plate hauler), **24** G. Huber, **25** J. Forrester (plate cleaner), **26** M. Reynolds (office), **27** R. Stevens, **28** L. Hull, **29** D. Sherman (designer), **30** T. Hoffman (foreman, photolithography dept.), **31** E. Simms (proof verifer), **32** K. Humphries (philatelic clerk), **33** M. Hulvey (office), **34** Z. Beall (office), **35** F. Vorth (die finisher), **36** A. Black, **37** William R. Burnell, **38** J.S. Edmondson, **39** F. Green (plate cleaner), **40** J. Weingartner (photolithographer), **41** David Lorens, **42** J. Hachley (plate finisher), **43** R. Wurtz (plate finisher), **44** Edgar Marshall (siderographer), **45** F. Adrian (siderographer), **46** W. Matthews, **47** E. Smith (plate finisher), **48** D. McCallum (siderographer), **49** M. Miles (proving room), **50** Charles Smith, **51** G. Boyd (photolithography dept.).

BRUGGERMAN, Jules. He was employed as a litho-stone engraver at Security BNCo ca. 1930-1945.

BRUNTON, Richard. *Eng & D-S.* d. Groton, CT 8 Sept. 1832. In 1781 he advertised in the *American Journal* and *Daily Advertiser* in Providence, RI. Brunton was imprisoned for counterfeiting.

BRYCE, _____. *Trans.* (see Amendt.)

BRYNAN (BRENEN), John. *Eng.* b. PA ca. 1828. He was working as late as 1860 as a bank note engraver.

BRYNE, H. He was employed in the Transfer Division of American BNCo in 1911.

BUCHANAN, (F.) L. *LtEng.* He was employed at American BNCo in the 1860s. This could be the same as the following.

BUCHANAN, Peter L. *LtEng.* He was employed at American BNCo from 1859 to 1876.

BUCHANAN, W. *LtEng.* d. 29 Jan. 1914. He was engraving at American BNCo in 1911.

BUCKES, Fred. *Des.* He was employed at American BNCo in 1945.

BUCKLEY, Leonard E. *Des. & Sid.* b. Brooklyn, NY 25 July 1938. He began his seven-year apprenticeship as siderographer at American BNCo in 1957 where he remained until 1967. Buckley studied design at the Corcoran Gallery School of Art and joined the Bureau of Engraving and Printing in 1967; he became Foreman of Design in 1972 and continues in that office.

BUCKLEY, W.H. *Des.* He was employed at the Bureau of Engraving and Printing in the 1950s.

BUELL, Abel. *D-S & Eng.* b. Killingsworth, CT 1 Feb. 1742, d. New Haven, CT 10 Mar. 1822. He is the possible engraver of the Seal for Colonial Connecticut. Buell was convicted of altering Connecticut 1sh & 2sh 6d notes dated Mar. 1762 into 30sh notes. His punishment required that his ears be cropped and his forehead branded with a "C".

BUFFORD, John H. *Eng & Lith.* He was working in NYC from 1835 to 1839. For the rest of his life he worked in Boston; in 1847 he worked for the New England BNCo.

BUREAU OF ENGRAVING AND PRINTING. In 1862 S.M. Clark, Chief Clerk at the Bureau of Construction, convinced Secretary of the Treasury Salmon P. Chase to establish the First Division of the National Currency Bureau. Clark became the first Chief of this Bureau, which formally came into existence on 29 August. 1862. In 1863 the name was changed to the Engraving and Printing Bureau of the Treasury Department. The first reference to the Bureau of Engraving and Printing, as we know it today, can be traced to 31 July 1868.

The Appropriation Act of 3 March 1869 gave recognition to this Bureau. In 1877 the Bureau was authorized to print all internal revenue stamps. On 1 October of that year the BEP was entrusted to print all government bank notes and security paper. Until that time private bank note companies had engraved and printed most bank notes securities.

BURKE, Edward F. *LtEng.* b. ca. 1840, d. ca. 1892. In 1870 he was employed at the National BNCo. As early as 1882 and as late as 1890 Burke was at American BNCo.

BURKE, Joseph. *PEng.* He was employed at American BNCo in the 1880s.

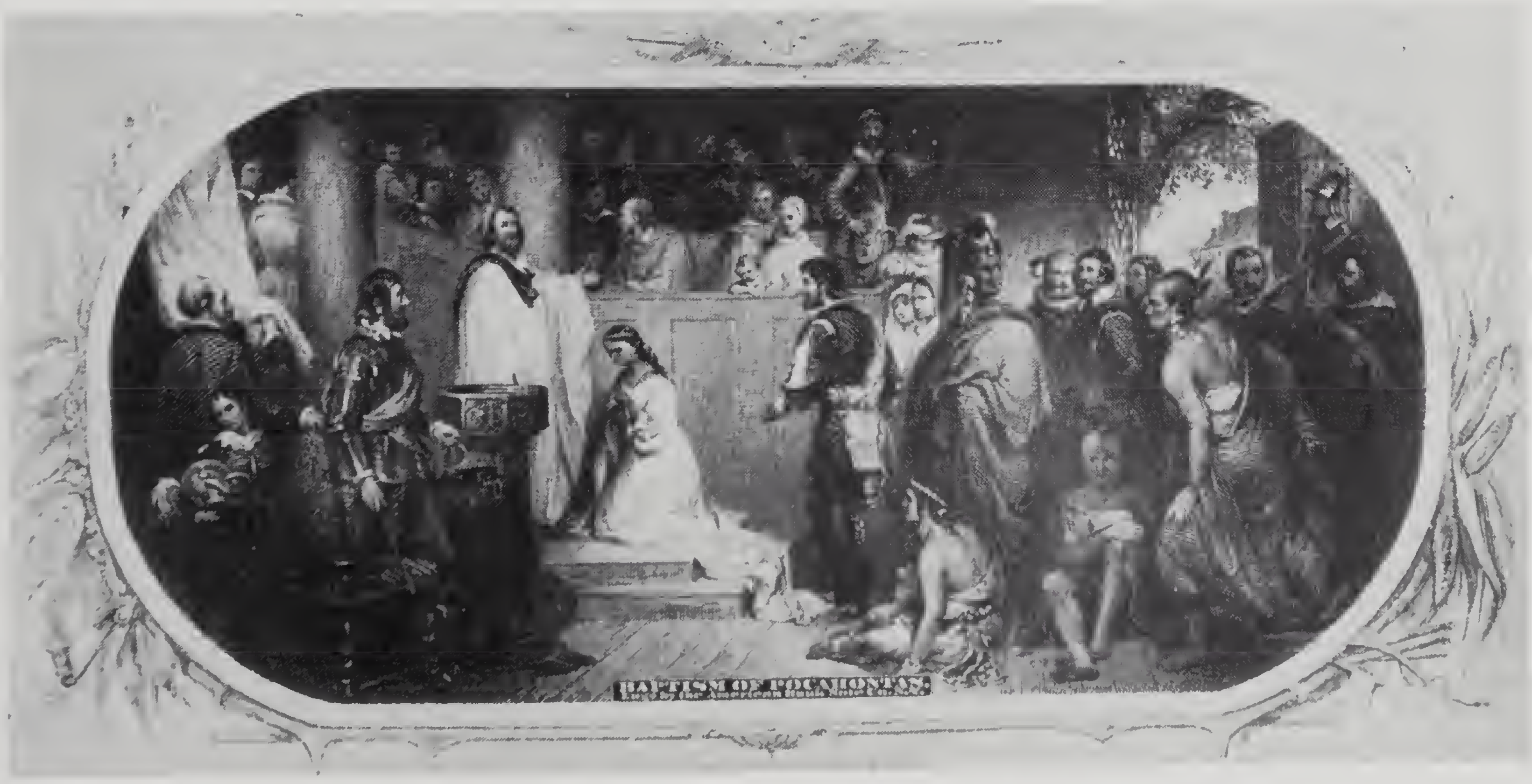
BURLAND, Albert. *LtEng.* He engraved for the Republic BNCo and the Western BNCo.

BURNELL, William Richard. *LtEng.* b. Omaha, NE 18 Feb. 1914. Educated in Green River, WY; art studies at Corcoran Gallery School of Art in Washington, DC. His career at the Bureau of Engraving and Printing began 20 Apr. 1938 as a skilled helper. Burnell served in the U.S. Army from 1944 to 1946. Before he began his apprenticeship as engraver on 15 July 1956 he was a restorer and pantograph operator. Burnell became an engraver on 15 Jan. 1959; he retired on 28 Feb. 1969.

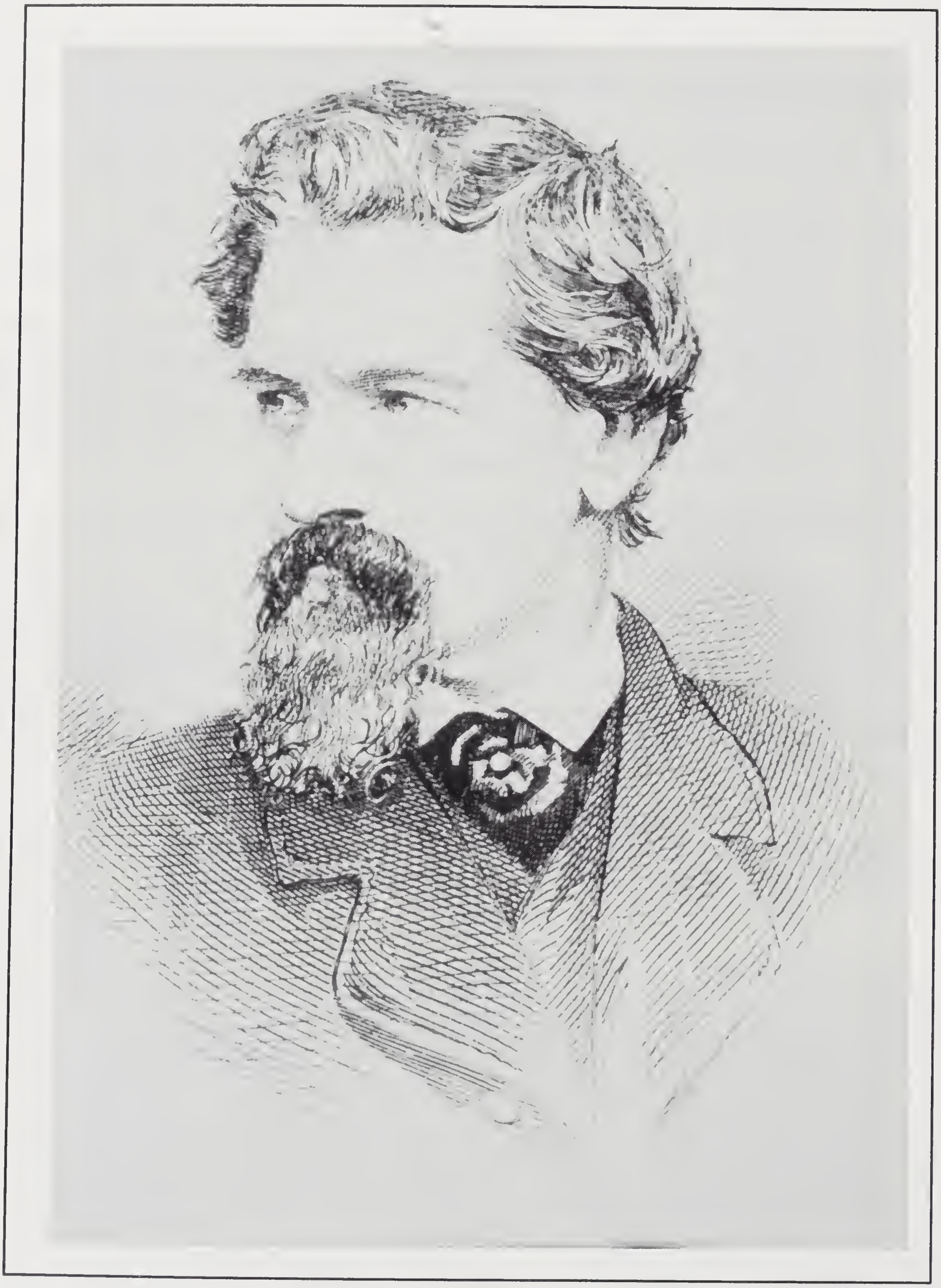
BURT, Charles Kennedy. *PEng & PtEng.* b. Edinburgh, Scotland 8 November 1823, d. Brooklyn, NY 25 March 1892. At 12 he studied under S. Holme Lizars in Scotland. In 1842 he came to New York City and worked for A.L. Dick for four years; most of that time he spent engraving Da Vinci's *Last Supper.* Burt engraved for Rawdon, Wright, Hatch & Edson; American BNCo; British American BNCo; John A. Lowell & Co. Boston; Baldwin & Gleason; Homer Lee BNCo; Western BNCo; New York BNCo; International BNCo; Continental BNCo; and the Bureau of Engraving and Printing. This engraver spent 16 years with American BNCo, and, although not employed there, for 20 years he produced engravings for the BEP. Burt, who served as president of the Graham Art School in Brooklyn, NY, painted in both oil and watercolor.

United States Federal Bank Notes

America, $50 IBTN, H945b; $5,000 IBTN, H1436-1440a.
America Seizing the Lightning, $10: NBN, H497-532 and NGBN, H567-577.



Baptism of Pocahontas, $20: (back) NBN, H728-749 and NGBN, H799-807.



A self-portrait engraved by Charles Burt. His name is near the left lapel.

United States Federal Bank Notes

(continued)

Adams, John Q., $500 USN, H1322.
Battle of Lexington, $20 NBN, H728-772.
Benton, Thomas H., $100 GC, H1223-1241.
Buchanan, James, $1,000 IBTN, HX121C.
Chase, Salmon P., $10 CITN, H493-495a.
Concordia, $1 NBN, H29-34.
Crawford, W.H. (original painting by J.W. Jarvis), FC 50¢, H1629 & H1630.
E Pluribus Unum, $1,000 IBTN, HX121C.
Franklin, Benjamin, $50 USN, H929.
Fulton, Robert, $2 SC, H185 & H186.
Garfield, James, $20 GC, H828-833.
Hamilton, Alexander: $20 USN, H703; $1,000 GC, H1413 & H1414.
Jefferson, Thomas, $2 USN, H154.
Justice, $1,000 IBTN, HX121C.
Justice with Shield: $50 IBTN, H945c & H945d; $100 CITN, H1137-1139d.
Landing of the Pilgrims, $1 NBN, H29-34.
Liberty and Union (art by G.H. Thomas), $500 IBTN, H1342.
Lincoln, Abraham: $5 SC, H372, all small-size $5 notes; $500 GC, H1359-1369; FC 50¢, H1624 & H1625.
Mansfield, J.K., $500 USN, H1323-1336.
McPherson, Gen. J.B., $2 TN, H197-202.
Meade, Gen. G.G., $1,000 TN H1425-1428.
Meredith, W., 10¢ FC, H1535-1538.
Stanton, E.M.: $1 TN, H62-67; 50¢ FC, H1626 & H1627.
Sumner, Charles (based on a photograph by Allen and Rowell), $500 SC, H1352-1357.
Victory, $500 USN, H1323-1336.
Walker, R., 25¢ FC, H1573 & 1574.

Washington, Martha, $1 SC, H36-44.

United States Bonds

Baker, E.D., $5,000 HX171B.
Benton, Thomas H., $1,000, HX169J.
Chase, Salmon P., $1,000, HX141D.
Clinton, DeWitt, $1,000, HX170D.
Douglas, Stephen, $1,000, HX169D.
Franklin, Benjamin, $500, HX183C.
Hamilton, Alexander, $1,000, HX131J.
Justice and Shield, $10,000, HX141F.
Liberty, $1,000, HX170D.
Lincoln, Abraham, $1,000, HX166D & L.
Loyalty, $1,000, HX141D.
Pro Patria (art by E. Leutze), $__, HX134F.
Wright, Silas, $100, HX169H.

Official Portraits, U.S. Secretaries of the Treasury

Boutwell, G.
McCulloch, H.
Richardson, W.A.
Sherman, J.
Wolcott, O.

United States Obsolete Bank Notes

America, Bank of Corydon, IN $5.
A.W. (male portrait), use uncertain.
Blacksmith, The, North Western Bank of VA $10.
Calhoun, John C., Bank of Charleston, SC $10; Farmers & Exchange Bank, SC $5.
Cattle, Egg Harbor Bank NJ $10.
Commerce, RI Union Bank, Newport $2.

Condit, Newark Banking Co., NJ $1.
Female, Bank of Selma, AL $50.

Girl with Dog (The Pets), City of Kansas, Kansas City, MO $1.
Hope, Bank of Commerce, Newborn, NC $5.

Hunting Buffalo: A.B.L. Zeckendorf, NM 12½¢, 186(3); Bank of St. Paul, MN $10.

Intelligence (*Science*): Southern Bank of St. Louis, MO $1; Chemical Bank, NYC $1; Harrisburg Bank, PA $2.

United States Obsolete Bank Notes

(continued)

Leisensing, Mauch Chunk Bank, PA $1.
McCormack, Citizens Bank of Louisiana $1, $2, $5, & $10.
Moultrie, Gov., Bank of the State of SC, Charleston $5.
Penn's Treaty, Bunker Hill Bank, Charlestown, MA $5.
Sailor: Farmers & Mechanics Bank, Savannah, GA $50; International Bank of (Portland) ME $3.
Science (art by Thomas and McDonough): Egg Harbor, NJ $5; Iron City Bank, Pittsburgh, PA $2; Peoples Bank, N. Providence, RI $5.
The Piper, International Bank, Portland, ME $2; Bank of Wadesborough, NC $3.
Three Miners (art by G.H. Thomas), McKean County Bank, Smethport, PA $5; Alleghany County Bank, Cumberland, MD $10.
Washington, George, Fairhaven Bank, ME $50.
Withers, Judge T.J., Bank of Camden, SC $10.

Foreign Bank Notes

Argentina
Corral (art by A. Chappel), 200 pesos, PS494.
de Alvear, Gen. Carlos M., 200 pesos, PS493-496.
Fortune, 20 pesos, PS1534.
Gaucho & Girl (art by E. White), 10 pesos, PS1784.
Gaucho and Guitar, 50 pesos, PS488-490.
Gaucho & Horse, 100 pesos, PS508.
Lassoing Cattle (eng. with J.D. Smillie; J.D.S. also artist), 10 pesos, PS1596.
Mercury, 10¢, PS501.
Pasos, Dr. J.J., 100 pesos, PS701 & 200 pesos, PS658.
Paz, Gen. J.M., 100 pesos, PS491.
Rivadavia, Bernardino, 5 pesos, PS1762.
San Martin, 500 pesos, PS511.
Sarmiento, Dr. D., 10¢, PS531.
Sarsfield, Dr. D., 5,000 pesos, PS499.
Brazil
Hope, 50 mil reis, PS647.
Female (seated) *and Child*, 5 mil reis, PA256.
Justice (art by T.A. Liebler), 500 mil reis, PS711.
Pedro, Dom, 1, 2, 20 & 200 mil reis, PA255, PA260, PA263 & PA248 and 100 cruzeiros, P170.
Canada
First Land (art by E. White), $10, PA29.
Horses, $50, PS1837.
Intelligence (*Science*), Bank of Nova Scotia $20, PS627.
St. John the Baptist (art by Herrick), $10, PS844 & PS852.
Chile
Boy's Head, 1 peso, P34 & PS306.
Fortune (art & eng.) 1 peso, PS131.
Horse, 10 pesos, PS208.
Mercury, 2 peso, PS187.
O'Higgins, Gen. B., 100 pesos, P23 & P24.
Paez, Don J.J., 1 peso, PS316.
Strength, 20 pesos, PS279.
Valdivia, Pedro, 1-10 pesos, PS331-334.
Costa Rica
Geographical Science (woman seated, art by Schussele), 10 pesos (left side), P121.**Colombia**
Cattle, 10 pesos, PS842.
Commerce, 5 pesos, P215.
History (female & child), 50 pesos, PS378.
Dominican Republic
First Land, 10 pesos, PS106.
Greece
Athena, 500 drachmai, P56.
Hawaii
Horse, $100, P10.
Honduras
Hope, 1, 5 & 10 pesos, PS111-115, 1 lempira, PS121 & 5 lempiras, PS123.
Italy
Arms of Italy, 10 lire, PS212 & PS213.
Cavour, C.B., 2 lire, PS211.
Italia (female), 10 lire (back), PS213.
Mexico
First Land, 50¢, PS254.
Girl with Dog (The Pets), 100 pesos, PS223.
History (female & child), 500 pesos, PS262.
Horses, 5 pesos, PS148.
Navigation (seated female; art by C. Schussele), 20 pesos, PS245.
River Source, 20 pesos, PS421.
Strength, 5 pesos, PS419.
Peru
America, 500 soles, PS318.
Columbus and Indian Maiden, 50 soles, PS316.
Female, 1 sol, P321, P333, P335 & P342.
Female & Child, 1 sol, PS331.
St. John the Baptist (art by H.W. Herrick), 2 soles, PS312 & PS322.
Trusty, 50¢, PS401 & 5 soles, PS403.
Spain
de Vega, L., 100 & 500 pesos, P11 & P12.
Justice (art by T.A. Liebler), 500 pesetas, P27.
Uruguay
Emanuelle, Victor, 100 pesos, PS214.
Horse, 1 peso, PS353.

Stock Certificates

Aboriginal (art by G.E. Sherman), Kruskal & Kruskal Inc. (1926).
Fortune (seated woman), Lake Shore & Michigan Southern Rwy.
History (woman and child), Lake Shore & Michigan Southern Rwy.
Indian Camp (art by Darley): Calumet & Hecla (1923); Deadwood Mining Co. (1879).
Nicotina (art by H.W. Herrick), American Tobacco Co. (1890).
Three Miners, Central Coal & Coke Co. (1895).

Miscellaneous

Baker, E.D., $5,000 currency certificate of deposit, HX171A & B.
Boston, City Arms of (art also by C. Burt), New England Trust Co. draft (1881).
Corwin, Thomas F., internal revenue stamp.
Female, internal revenue stamp (distilled spirits).
Intelligence, Mexico Cuernavaca & Pacific RR bond (1893).
Science, Seal of the National Academy of Sciences of the U.S.A.
Thomas, Philip F., internal revenue stamp.
To Arms (eng. with L. Delnoce; art by F.O.C. Darley), Denver FNB draft.
Trusty (Suspense), (art by E. Landseer), Trader's Bank, St. Louis, MO check.
Victory, State of Georgia treasury bond (1879).
Washington, George (profile, based on a painting by a daughter of Thomas Willing), District of Colombia $1,000, 5% bond (1879).
Washington, George (profile) *and Seated Liberty*, Mt. Vernon Cemetery medallion (52 mm) (1859).

Stamps

Argentina
Rivadavia, B. 5¢, A4 & A7.
Bolivia
Arms of Bolivia, 5¢-500¢, A4.
Brazil
Pedro, Dom: A5, A6-16, (A9, 100 reis with J. Bannister, A11, 20 reis with J. Bannister, (A13, 80 reis with J.D. Smillie); A18-20 (with J.D. Smillie).
Chile
Columbus, C.: A2 (1¢ & 2¢), A3 (2¢-50¢, the last with J.D. Smillie), A5, 5¢.
Nova Scotia
Victoria, Queen, 8½¢, A5.
United States
America, tax-paid revenue stamps for snuff (1872), and tobacco (1873).

(Charles Burt also engraved unidentified stamps for Canada, Italy and Russia.)

BURTON, James R. *CPP & Eng.* b. ca. 1800, d. ca. 1860. From 1830 to 1831, ten years after he first appeared in New York City, he was with Burton & Whitlock; from 1834-1839 with Casilear, Durand, Burton & Edmonds and their successors.

BUSHELL, John. He cut the woodblock borders for Massachusetts notes dated 1737.

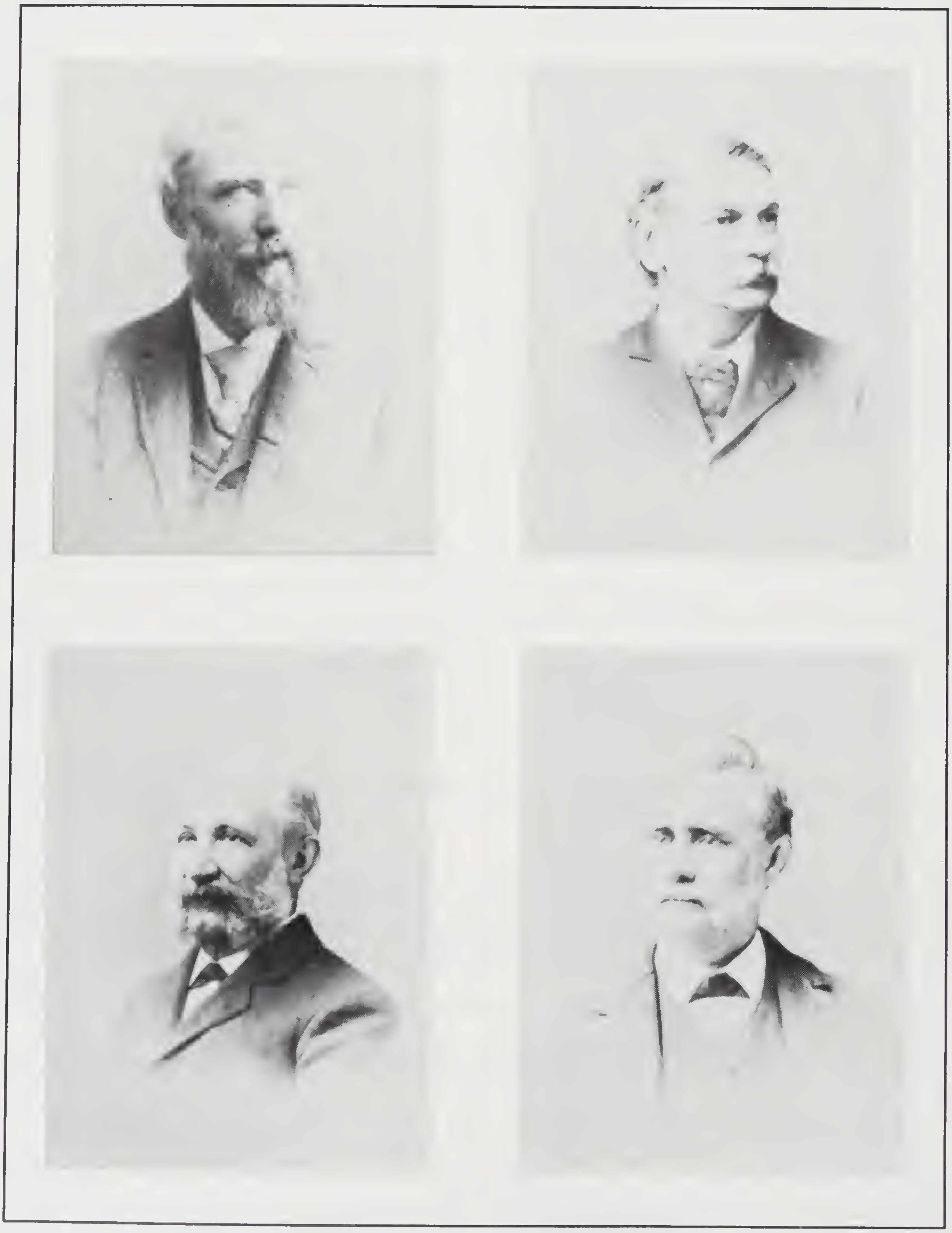
BUSSING, _____. He was employed in the Engraving Dept. of American BNCo in 1881.

BUTLER, _____. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1813.

BUTLER & CARPENTER. In 1862 this partnership was formed by John M. Butler and Joseph R. Carpenter. They prepared U.S. Revenue stamps from 1 Sept. 1871 to 31 August 1875. On 11 April 1863 Butler & Carpenter submitted "drawings and models of finished beauty" for $10, $20 and $50 national bank notes. None of these essais are known to have survived. They could have been lost in a fire on 4 March 1872, which destroyed company records at their offices on Chestnut St. in Philadelphia. For details of this proposal see E.C. Wilkens (*EPJ* 122, p. 59).

BUTLER, John M. *Eng.* b. 1815, d. 1868. He was listed in Philadelphia directories at different times as an historical, portrait and landscape engraver, and a copperplate printer. A partnership was formed with Joseph R. Carpenter in 1862.

BUTLER, Joseph P. This engraving-prover was employed at American BNCo from 8 August 1928 until 21 January 1932.



Top, left to right: J. Claxton, W. Buchanan. Bottom: W. Costenbader, _____ Cunningham.

C

CAIRNS, S.W. *Pr & Typographer.* He was employed at American BNCo in 1859.

CALL, Arthur. He was in the General Engraving Division at American BNCo in 1911.

CALLE, Paul. *Art & Ill.* b. NYC 1928. He studied at the Pratt Institute in NYC. Mr. Calle did a variety of commercial advertising illustration. His art work is exhibited in the Phoenix Art Museum, at NASA — he recorded the Mercury and Apollo-Soyuz programs—and the Northwest Indian Center. He designed U.S. postage stamps and created art work that was used on stock certificates made by American BNCo.

Stock Certificates

Chemistry (eng. W. Hauck), Emery Industries Inc.

Female (eng. W. Hauck), Collins Foods International, Inc.

Female (eng. K. Guy), Gottschalles, Inc.

Female with Sword, Eagle & Globe (eng. W. Hauck), National City Corp.

Male, Female & Building (eng. E. Cranz), Broadview Financial Corp.

Male, Female & Globe (eng. E. Cranz), Central & South West Corp.

CALLENDER (CALENDER), Joseph. *Eng.* b. Boston, MA 6 May 1751, d. Boston 1821. He was a student of Paul Revere and worked in Boston as late as 1789. He printed Massachusetts notes dated 21 September 1789 and was a die-sinker for the MA Mint.

CAMMANN, Otto. *Trans.* (see Amendt.)

CAMPBELL, _____. *Trans.* (see Amendt.)

CANTRTELL, W.H. *Des.* He was employed at the E.A. Wright BNCo.

CAREY, Matthew. He printed notes dated 1786 for the Burlington Nail Co., in NJ.

CAREY, Peyton. He graduated from the Museum of Fine Arts in Boston in 1810; he designed and engraved a seal for the University of Georgia.

CARLSON, John F. *Art & Des.* b. Kolsebro, Sweden 1875, d. 20 March 1945. Between February 1958 and March 1961 he created art work that was used on stock certificates made by American BNCo. Carlson made his first trip to the American West in 1920. The Colorado Fine Arts Center in Colorado Springs stands where he taught landscape painting. In 1922 Carlson founded the John F. Carlson School of Landscape Painting in Woodstock, NY. His *Elementary Principles in Landscape Painting* was published in 1928. Carlson's works hang in the Colorado Fine Arts Center, the National Museum of American Art, the Metropolitan Museum of Art, and the Ft. Worth Art Center.

Stock Certificates & Depositary Receipt

Electronics No. 1 (eng. K. Guy), IT&T Corp. stock certificate.
Electronics No. 2 (eng. W. Ford), Arrow Electronics, Inc. depositary receipt.
Electronics No. 3 (eng. J. Hay), Richardson Electronics, Inc. stock certificate.
Electronics No. 4 (eng. J. Hay), Lamson & Sessions Co. stock certificate.
Pipeline (eng. L. Kauffmann), Atlanta Gas Light Co. stock certificate.

CARLSON, S.O. *Art & Ill.* Six paintings by this artist were part of American BNCo Archives sold by Christie's, November 1990.

Arthur Call

Henry W. Chapman

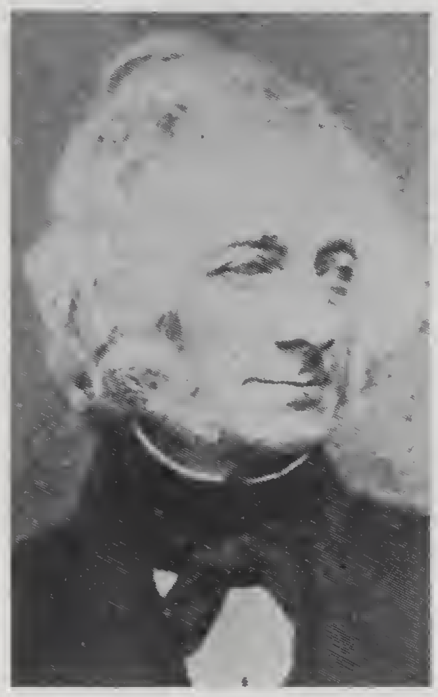
Kenyon Cox

J. Ross Corbin

J. Doe and S. Carter

George H. Danforth

CARPENTER, Charles T. *Eng.* He was engraving for Toppan, Carpenter & Co. in 1858 when the formation of American BNCo took place.



CARPENTER, Joseph R. *Des & Eng.* b. ca. 1820, d. ca. 1894. He became a member of Toppan, Carpenter & Co. in 1860 but worked independently in 1861. The following year Carpenter formed a partnership with John M. Butler; they prepared U.S. Revenue stamps from 1 Sept. 1871 to 31 Aug. 1875. After Butler's death in 1868 the firm was known as Joseph R. Carpenter. Under this name he produced the backs for 50¢, fifth issue fractional currency. He became manager of the Philadelphia BNCo, the successor to his company.

CARPENTER, J.W. *Eng.* He was probably employed by Murray, Draper & Fairman in 1819 when he went to England with Jacob Perkins, Gideon Fairman, Charles Toppan and Asa Spencer.

CARPENTER, Samuel B. In 1843 he was listed as a member of Draper, Toppan & Co. in Boston.

CARPENTER, Samuel H. b. NJ ca. 1798, d. 30 Oct. 1859. He was with Toppan, Carpenter & Co. and succeeding firms from 1844 to 1859. Carpenter, an accountant, often listed as an engraver, was a founder of American BNCo.

CARPENTER, Samuel H., Jr. *Eng.* b. ca. 1832, d. ca. 1870. He was associated with Toppan, Carpenter & Co. from 1855 to 1858; he moved into American BNCo in 1858 when he and his father signed the Articles of Association.

CARR, William. *Eng.* b. ca. 1772, living in 1819. This copperplate engraver was in Philadelphia 1800-1809, first at 118 S. Front St. From 1809 to 1810 he was in partnership with John Draper at 3 Norris Place.

CARSWELL, Allan. *PtEng, LtEng & ScrpEng.* b. Ontario, Ottawa, Canada 1 Nov. 1935. His education included figure drawing under Gerald Trottier. In 1954 he went to the Canadian BNCo, where he also served his apprenticeship. There, Mr. Carswell engraved at least 20 postage stamps and an unissued bank note portrait of Sir John A. MacDonald. In October 1971 he joined the SecColBNCo. The script on the stock certificates of Entenmann's Inc. and Exxon is the work of this engraver. Mr. Carswell is also a prize-winning woodcarver.

CARTER, S. He was employed in the Engraving Dept. of American BNCo as early as 1881 and as late as 1911.

CARTER, John. *Pr.* b. Philadelphia ca. 1747, d. Aug. 1814. His apprenticeship was served under Franklin & Hall. From 1766 to 1768 he was a partner of Sarrah Goddard, the mother of printer William Goddard. In 1769 Carter took over this business. He printed Rhode Island notes dated 3 May 1775 and 5 Sept. 1776.

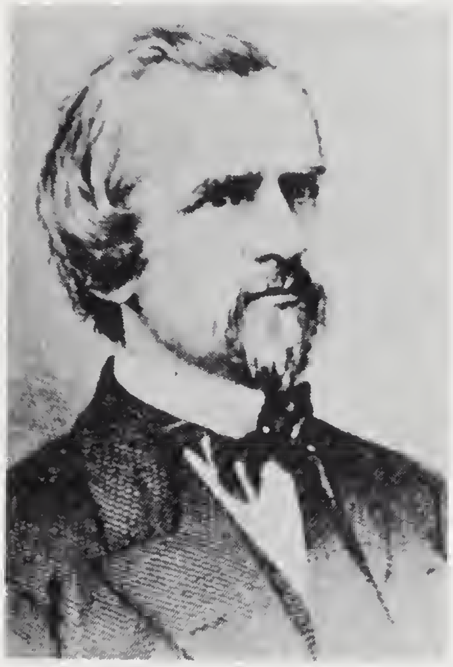
CARVALHO, Solomon Nuñes. *Art & Des.* b. Charleston, SC 27 April 1815, d. NYC 1894. In 1828 his family moved to Baltimore, MD. Carvalho's art career began in Philadelphia in 1838, where he did most of his work. In 1849, the year he exhibited at the Pennsylvania

Academy, Carvalho, his wife and son returned to Baltimore. During 1853 and 1854 artist-photographer Carvalho accompanied John C. Fremont's expedition to the to the Far West. He created *Boy Holding Rabbits*, which appears on the following bank notes: Elm City Bank, New Haven CT $1; Pahquloque Bank, Danbury, CT $10; Stafford Bank, Stafford Springs, CT $1; Congressional Bank, Washington, DC $3; Planters and Mechanics Bank, Dalton, GA $1; Fredericktown Savings Institution, Frederick, MD $20.

CARY, Isaac. *Eng & Pr.* He was in Boston from 1828-1860 and probably later. He was with the New England BNCo from 1845-1848, as agent for the last two years.

CARY, W.M. *Art & Ill.* Two Indian drawings by this artist were part of American BNCo Archives sold by Christie's Nov. 1990.

CASILEAR, Francis A. *Prv.* He was with Toppan, Carpenter, Casilear & Co. Casilear's name next appears at American BNCo in 1862.



CASILEAR, George Washington. *Des & PtEng.* b. New York City 1825, d. Charlottesville, VA 1912. He was the son of Francis and the nephew of John W. Casilear. His first work was probably with Toppan, Carpenter, Casilear & Co. Casilear went to the National Currency Bureau (BEP) in 1862 as an assistant in model design. He was appointed Superintendent of Engraving on 16 Dec. 1889; he retired on 30 Oct. 1893. At least seven patents that relate to bank note printing, paper and ink are recorded in his name. In 1878, at the Paris Exhibition, Casilear received a silver medal for Superior Excellence in Engraving. He designed the following: FC 5¢, H1506-1509 (back); 25¢, H1552-1558 (back); 50¢, H1626 & 1627; TN $1, H62-67.

CASILEAR, John W. *Des & PEng.* b. NYC 25 June 1811, d. 17 Aug. 1893. He was apprenticed under Peter Maverick and continued his studies with Asher B. Durand. Except for a trip to Europe (1840-1843) he worked in New York City. He was a member of Casilear, Durand, Burton & Edmonds from 1835-1837. Casilear worked independently in 1847 and 1848, then he joined Toppan, Carpenter & Co. In 1854 he concentrated on painting and became a member of the Hudson River School of Painting. Casilear returned to Europe to paint in 1857 and 1858.

Miscellaneous Designs

Caduceus (eng. A. Jones): TN $50, H945c & d; $500, HX1481.

Girl with Sheaf (eng. L. Delnoce), Canada $20, PS1026; Beech Creek RR (reg. bd., 1890).

Horse (eng. C. Schlecht), Hawaii $20, P8.

Liberty (eng. A. Jones), $20, H703.

CASILEAR, Paul. *Eng.* He was working with Toppan, Carpenter & Co. from 1856-1858. Casilear was working in NYC in 1860.

CASTLE, Robert. *Art. Des.* He is said to have done work for Quayle & Son.

CAUGHLAN, Daniel F. *Eng & Sid.* b. Birmingham, England 10 October 1851, d. Yarmouth Port, MA 15 Aug. 1934. Following his arrival in New York City he studied with Louis Delnoce. He joined the Continental BNCo and remained with American BNCo after the 1878 consolidation. About 1883, Caughlan & Berry was organized. In 1885 Caughlan joined the Canadian BNCo in Montreal; there he learned transferring. Two years later he was working as a siderographer and engraver for John A. Lowell in Boston where he created a formula for annealing. In 1915, when Lowell liquidated, Caughlan returned to ABNCo as a siderographer; he retired in May 1928. Caughlan was an organizer of the International Siderographer's Association; he held the office of vice-president.

CENTRAL BANK NOTE CO. This Chicago company was formed in 1919 or 1920 by Fred R. Esty, who had worked for Columbian BNCo from 1910-1919. Central BNCo prepared securities, including many real estate bonds. About 1924 their work was approved for use by New York Stock Exchange companies. In early 1940 this company was taken over by E.A. Wright in Philadelphia and later became part of Security BNCo. The Central Bank Note Co. logo has been observed on the certificates of the Detroit & Canada Tunnel Co. (1929), and the Duquesne Gas Corp. of PA (1931).

CHACONAS, Gary M. *PEng & LtEng.* b. Washington, DC 26 June 1949. Education and art studies took place at the U. of Kansas School of Music & Art), Ohio State U., Maryland U., Corcoran Gallery School of Art, George Washington U. and American U. Chaconas joined the Bureau of Engraving and Printing in 1971 and served his apprenticeship under F. Sharpless, A. Dintaman, E.P. Archer and J. Wallace, Jr. U.S. postage stamps and *Miss Liberty*, the logo for the Souvenir Card Collectors Society, were engraved by Mr. Chaconas.

CHALMERS, Charles M. *Art & PEng.* This cousin of Marcus W. Baldwin joined American BNCo on 8 Dec. 1922, where among other things, he engraved the *Campbell's Soup Symbol* for the company stock certificate; he remained at ABNCo until 12 July 1934. Chalmers moved to the Bureau of Engraving and Printing and prepared the *Battleship New York* art for the back of the U.S. $2 FRN, H203.

CHAPPEL, Alonzo. *Art & Ill.* b. NYC 1 March 1828, d. Middle Island, Long Island, NY 4 Dec. 1887. This precocious artist was listed in the New York City Directory at age 16. He studied at the National Academy of Design and exhibited at the American Institute before his next birthday. From 1845 to 1868 he lived in Brooklyn, then moved to Long Island. The New York and Chicago Historical Societies have examples of Chappel's work.

Bank Notes

Corral (engs., J. Smillie & C. Burt), Argentina 200 pesos, PS494.

Silas Wright (eng. C. Burt), U.S. GC, $50, H1029-1039.

CHAPMAN, Henry William. This engraver was in New York City in 1859.

CHEN, Tsaurong Jerome. *Des.* b. Taiwan 12 Dec. 1933. He graduated from the Normal U. of Taiwan in 1956 with a BFA. During his four years in the military Mr. Chen taught for 1½ years. He then joined the Bank of Taiwan as a designer; and remained when it became the Central Bank of China in 1977. About 1969 he completed training at Giori in Italy. In 1977 he came to the U.S. to become the chief designer for Security-Columbian BNCo. Mr. Chen has designed hundreds of certificates and bonds.

CHENEY, John. *Art & PtEng.* b. South Manchester, CT 20 Oct. 1801, d. South Manchester, CT 20 Aug. 1885. In 1821 he was engraving maps in Hartford, CT, later in Boston. He went to Europe in 1833 to study. Cheney returned to Boston and moved to Philadelphia where he engraved until ca. 1850. It is said that he engraved a few bank note subjects. His brother Seth was also an engraver. In 1893 the Museum of Fine Arts in Boston exhibited the works of this initially, self-taught engraver who made his own tools.

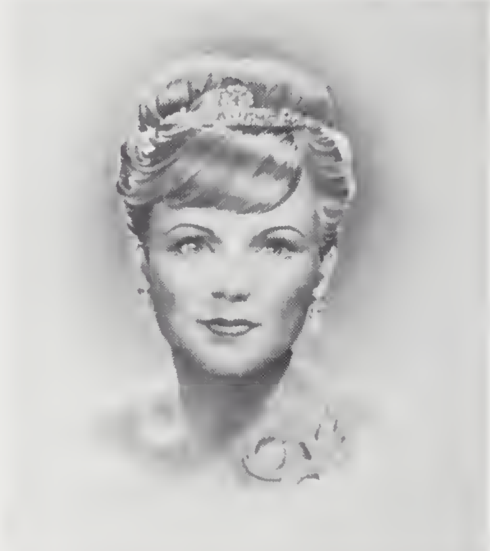
CHICKERING, Charles Ransom. *Art & Des.* b. Smithville, NJ 7 Oct. 1891, d. Island Heights, NJ 2 May 1970. His education in Philadelphia included art studies at the Pennsylvania Museum and School of Industrial Art. He also studied at George Washington U. and American U. From 1919 to 1943 he worked as an artist and illustrator in NYC and was senior illustrator for the Department of the Navy in 1942 and 1943. Chickering joined the Bureau of Engraving and Printing on 1 April 1943 as an apprentice pantograph operator; he became an apprentice engraver on 2 Nov. 1946. Exactly one year later he was appointed as an engraver. He retired on 31 Oct. 1961 but returned to the BEP on 6 November 1961 as a designer.

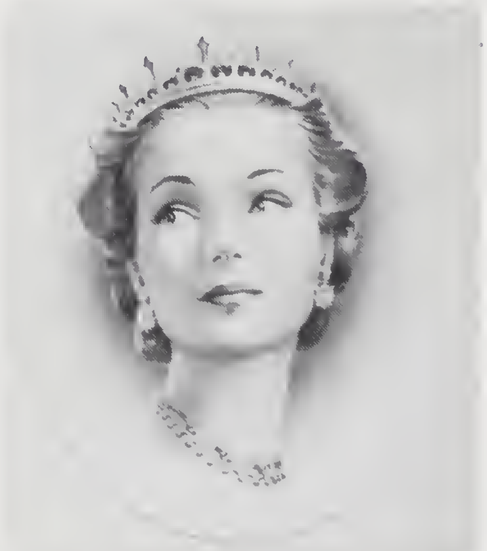
Military Payment Certificates

Female Head (eng. C. Brooks), Series 611, $5, S-B65.

Liberty (eng. A. Dintaman), Series 611, 10¢, S-B61.

Tiara (eng. M. Fenton), Series, 611, $1, S-B64.





CHILDS, Cephas G. *Eng.* b. Bucks County, PA 8 Sept. 1793, d. Philadelphia 7 July 1871. Following his studies with Gideon Fairman he went to Europe. When he returned he entered a partnership with Henry Inman from 1831 to 1835. Childs taught letter engraving to Henry E. Saulnier. Vignettes on the bank notes of Holcomb & Co. bear the name of Childs. From 1818 to 1845 he was listed in Philadelphia directories as an historical and landscape engraver. Childs abandoned engraving ca. 1845 and concentrated on newspaper work. He served as one of the editors of *The Commercial Herald* and the *North American*.

CHILDS, John V. *Art, Eng & Lith.* He was working in New York City from ca. 1830-1844. The following year he moved to Boston; in 1847 he was in Philadelphia where he remained until 1860. It is uncertain if he engraved bank notes.

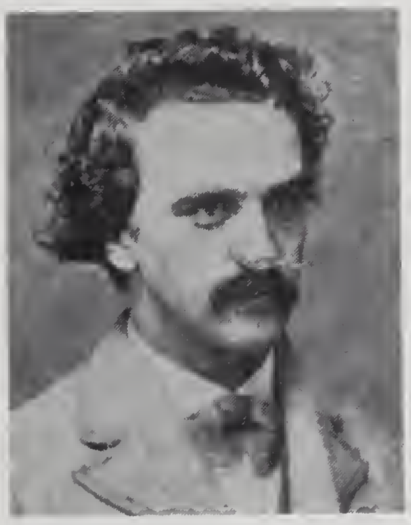
CHORLTON, Harry L. *PEng.* b. Brooklyn, NY 1869, d. South Pasadena, CA 22 Aug. 1955. He studied engraving with Richard Berry, Franklin BNCo engraver. From 1884 to 1886 he engraved for the Hamilton BNCo. During this time he engraved about 12 stamps for Latin American countries. Sometime after leaving HBNCo Chorlton joined the Homer Lee BNCo. In 1894, along with G.F.C. Smillie and Thomas F. Morris, Chorlton moved from the HLBNCo to the Bureau of Engraving and Printing. He retired in 1916 but was recalled to the BEP until 1919. He is credited with the *Great Seal of the U.S.* on the $10 GC, H605-611, and the ship engraving on the Canada $50 note, PS1376.

Stamps & Miscellaneous

Ceres ("Estado"), Salvador stamps, A61.

Nicaragua Coat of Arms, Nicaragua stamps, A10.

Puerto Rico Arms, 5/16" diameter.



CHORLTON, William. *PEng.* b. Manchester, England 20 March 1847, d. 1874. He came to the U.S. ca. 1852. At 16 Chorlton was engraving for the National BNCo under Alfred Jones and James Smillie. At the NBNCo he made an engraving of the *National Exchange Bank*, Tiffin, OH; the use is uncertain. Chorlton also engraved the *Arms of Russia* (51 mm wide); the use is also uncertain. He went to the Bureau of Engraving and Printing ca. 1872. Chorlton died two years later. He is the father of Harry L. Chorlton.

Bank Notes

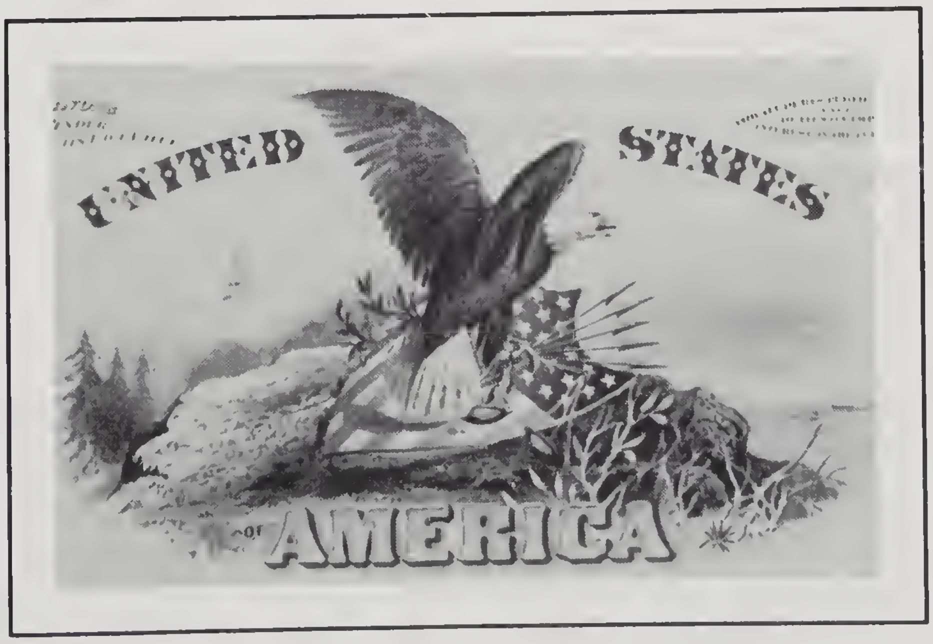
Boy and Oxen, Chile 5 pesos, PS428.

Capitol, The, $2 USN, H154-170.

Eagle, $5,000 (back) USN, H1435.

Industry, $10: USN, H618 & 619; FRBN, H620.

Native with Pack, Mexico 50¢, PS190.



CHRISTIE, A. He was employed in the Modeling Division of American BNCo in 1911.

CHRISTENSEN, Axel W. *LtEng.* b. Aalborg, Budolfi, Denmark 16 Feb. 1897. He engraved at E.A. Wright Co. in Philadelphia for 26 years. Christensen joined the Bureau of Engraving and Printing as a ScrpEng on 5 Feb. 1940. Before retirement on 30 June 1959 he served at the BEP in supervisory positions.

CHRISTENSEN, Ralph. *PEng.* He engraved for Forbes Litho Co. and Goes Litho Co.

CHRISTENSEN, S.L. He was employed at E.W. Wright, probably as an engraver.

CHUBBUCK, Thomas. *Eng.* b. Boston, MA, d. Springfield, MA 1888. He moved to Brattleboro, VT in 1846, the same year he engraved the "Postmaster's Provisional" postage stamp.

CHURCH, Robert. *Eng.* Between 1862-1872 he engraved for Butler & Carpenter who were at 242 Chestnut St. in Philadelphia.

CLAGGETT, William. He printed Rhode island notes dated 15 Aug. 1737, 22 Aug. 1738 and 2 Feb. 1741.

CLANCY, Daniel M. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s.

CLANCY, Morgan D. *Trans.* After working for Quayle & Son he moved to American BNCo on 17 June 1929 where he remained until 21 Jan. 1932.

CLARK, Asabel. *Eng.* b. ca. 1800, d. ca. 1836. He resided in Albany, NY 1825-1835 as a member of Rawdon, Clark & Co. A Bank of Bennington, VT $10 note by that company bears a vignette with "A. Clark."

CLARK, Francis. *Trans.* He was employed at American BNCo from August 1909 until 1 April 1937.

CLARK, James. He was an engraver of bank note advertising cards in New York City ca. 1840. Clark had an office at 67 Broadway.

CLARK, Harry. *ScrpEng.* d. 29 Dec. 1945. He was employed at American BNCo from 1903 until 1945.

CLAXTON, Joseph. *Des & ScrpEng.* b. Bury St. Edmonds, England 10 Dec. 1831, d. 10 March 1910. He came to the U.S. ca. 1850 and joined the Continental BNCo in 1872; he was supervisor of design until 1877. At consolidation with American BNCo in 1878 he became an engraver. Claxton designed a ContBNCo business card.

CLAXTON, William. *ScrpEng.* d. 11 May 1937. He was employed at American BNCo from June 1901 until 5 Nov. 1936.

COCCI, Peter. *Des, Mod & Typ.* b. Philadelphia, PA 27 Oct. 1944. Education and art studies at Temple Technical institute, Philadelphia College of Art, and Pennsylvania College of Fine arts. Cocci was employed at the Security BNCo, Federated BNCo and joined the Bureau of Engraving and Printing on 16 July 1973. He designed Bureau of Engraving and Printing souvenir cards and the back for the 1976 $2 FRN, H207. See U.S. postage stamp designs beginning in 1975.

CODDINGTON, John. He printed Rhode Island notes dated 2 Dec. 1740.

COFFIN, A.S. This engraver was employed by the Western BNCo ca. 1892. He is credited with the *Indian* on the Glucose Refining Co. certificate, and the title on the back panel for the Pacific Coast Bisquit Co.

COLBROOK, F.L. After working at International BNCo he joined American BNCo in 1900.

COLLETTI, Deborah. *LtEng.* (see Deborah J. Alexander.)

COLLINS, Isaac. *Pr.* b. DE ca. 1740, d. Burlington, NJ March 1817. He served his apprenticeship under James Adams of Wilmington and William Rind in Williamsburg, VA. Upon the death of James Parker in 1770 Collins set up a press in Burlington, NJ. In that same year he was appointed printer to the government; he printed New Jersey notes dated 1786 and 20 Dec. 1783.

COLUMBIAN BANK NOTE CO. Headed by John G. Wellstood, this company was located at 908 Pennsylvania Ave., Washington, DC in 1867. George T. Jones, engraver, was vice-president and treasurer. They prepared the backs for the 1874 & 1875 U.S. notes and 10¢ and 25¢, fifth issue, fractional currency. By 1880, when Wellstood was engraving for the Dominion BNCo in Canada, the Columbian BNCo was no longer in business.

COLUMBIAN BANKNOTE CO. When American BNCo took over the Western BNCo in 1904, C.C. Cheney, president of WestBNCo, organized the ColBNCo in Chicago; they were located at 500 S. Ashland Blvd. On 12 Dec. 1957 *The New York Times* announced the consolidation with the Security BNCo; the new firm was named the Security-Columbian BNCo.

CONEY (CONY, CONNY), John. *Eng, gold and silversmith.* b. Boston, MA 1655, d. Boston, MA 1722. Records dated 12 March 1702 and 1703 in the Archives of MA acknowledge indebtedness of the colony "To John Conny for graving Plates for Bills of Credit," and for 26 Nov. 1706, to prevent counterfeiting. The plate for these bills was to receive "Eight blazons" by the engraver. "This Massachusetts currency of 1702 included little more than the engraved script and the seal of the Colony, and the earlier bills of 1690 approach it so closely in general design and execution, especially in the character of the decoration at the top of the note, that there is a strong possibility that both plates were made by the same man. If this assumption were correct, John Conny would be the first American engraver upon copper on record" (Stauffer I: 55). He also engraved MA notes dated 21 November 1702, 21 November 1708 and 31 May 1710. (See p. 1.)

CONLEY, Frank P. *Des.* This Bureau of Engraving and Printing designer is responsible for the basic design of all six (U.S.) Credo stamps in 1960.

CONN, James. *Eng.* He advertised in Elizabethtown, NJ. In addition to the teaching of writing and other fundamental subjects, he solicited engraving work for "Ship Bills, Bills of Parcel, Bills of Exchange, or any kind of Writing for the Rolling Press, in the neatest Manner" (Opitz 170).

CONNELY (CONNOLY), Edward. *Des.* He was working at the Hamilton BNCo in 1913 and was with American BNCo as late as 1945.

CONTINENTAL BNCo. This company began operation in Jan. 1863; initially they occupied the upper four floors at 114 Greenwich St., NYC, a building owned by U.S. Treasury official J.P. Cisco. One of the first employees was legendary and controversial engraver Waterman L. Ormsby, Sr. As their first U.S. government contract they prepared some face plates for first charter $5 national bank notes and national gold bank notes. This was followed by U.S. revenue stamp contracts. On 25 Jan. 1873 ContBNCo received a contract to print all U.S. postage stamps. Until consolidation with American BNCo in 1878, ContBNCo continued to print all stamps, including official newspaper stamps. The ten presses in their stamp department had a capacity to print 75,000 impressions, or 15,000,000 stamps each week. Among the engravers were: Henry S. Beckwith, J.P. Ourdan, Atwood Porter and Charles Skinner.

COOK, _____. This engraver was employed at the National BNCo in the 1870s.

COOK, Martin. *Pant.* He was employed at American BNCo from 22 June 1912 until December 1932 with the exception of less than one year of service during World War I.

COOK, _____. *Trans.* (see Amendt.)

COOKE, Benjamin. (see Joseph Cooke.)

COOKE, Joseph. *Eng.* He advertised in the *Pennsylvania Gazette* 7 May 1789 as an engraver of seals, coats of arms "and all manner of Engraving on steel, silver, gold or metal...." In April 1773 a Joseph Cooke, along with Benjamin Cooke, Peter Medley and Benjamin Woodward were ordered to stand trial for counterfeiting £5 notes of Virginia (*Virginia Gazette*, 25 Feb. 1773, p. 3).

COONEY, Alice. She worked as an engraving-prover at American BNCo from 21 June 1899 until 12 July 1934.

COOPER, D. *LtEng.* b. NY state. The 3-cent U.S. postage stamp of 1861, the first engraved by the National BNCo, is said to be the work of Cooper.

COOPER, D[avid], M. *LtEng.* b. NY state 1816, d. 1895. He was employed at American BNCo in 1860 and 1861. Bureau of Engraving and Printing records show that an engraver with this name resigned on 10 Nov. 1885. Postal card die records from 1890 have "D.M. Cooper," those from 1879 and 1885 have "Cooper." This could be the same as the preceding listing.

COPELAND, Charles. *PEng.* He was employed at American BNCo during the early 20th century. Copeland engraved *Oil Wells* (eng. with L. Delnoce) for these stock certificates: Lago Oil Transport Corp., 1926; Shell Transport & Trading Co., 1925; Superior Oil Corp., 1929; Texon Oil & Land Co., 1928.

COPENHAVER, W.A. *Eng.* He was at the Bureau of Engraving and Printing ca. 1881.

COPENHAVER, W.E. *Eng.* b. Washington, DC 22 Oct. 1876. He was employed as a plate printer at the Bureau of Engraving and Printing on 4 Dec. 1899. In August 1940 he was suspended for damaging a $10 uniform back plate to such an extent that it had to be canceled. Later it was discovered that he suffered from myocarditis, arteriosclerosis, chronic nephritis and neuritis. This could be the son of W.A. Copenhaver.

CORAM, Thomas. *Eng.* b. Bristol, England 1756, d. Charleston, SC May 1810. He came to America at age six. This self-taught Charleston, SC engraver of considerable reputation engraved notes for that state dated 8 Feb. 1779.

CORBIN, J. Ross. *PlPr.* b. 1850, d. 1880. He was employed at the Philadelphia office of American BNCo; he became foreman of his department.

CORBOY, R. *LtEng.* He was employed at American BNCo from 20 May 1909 until 10 March 1917.

CORDUKES, Alex. He was an etcher at American BNCo ca. 1887.

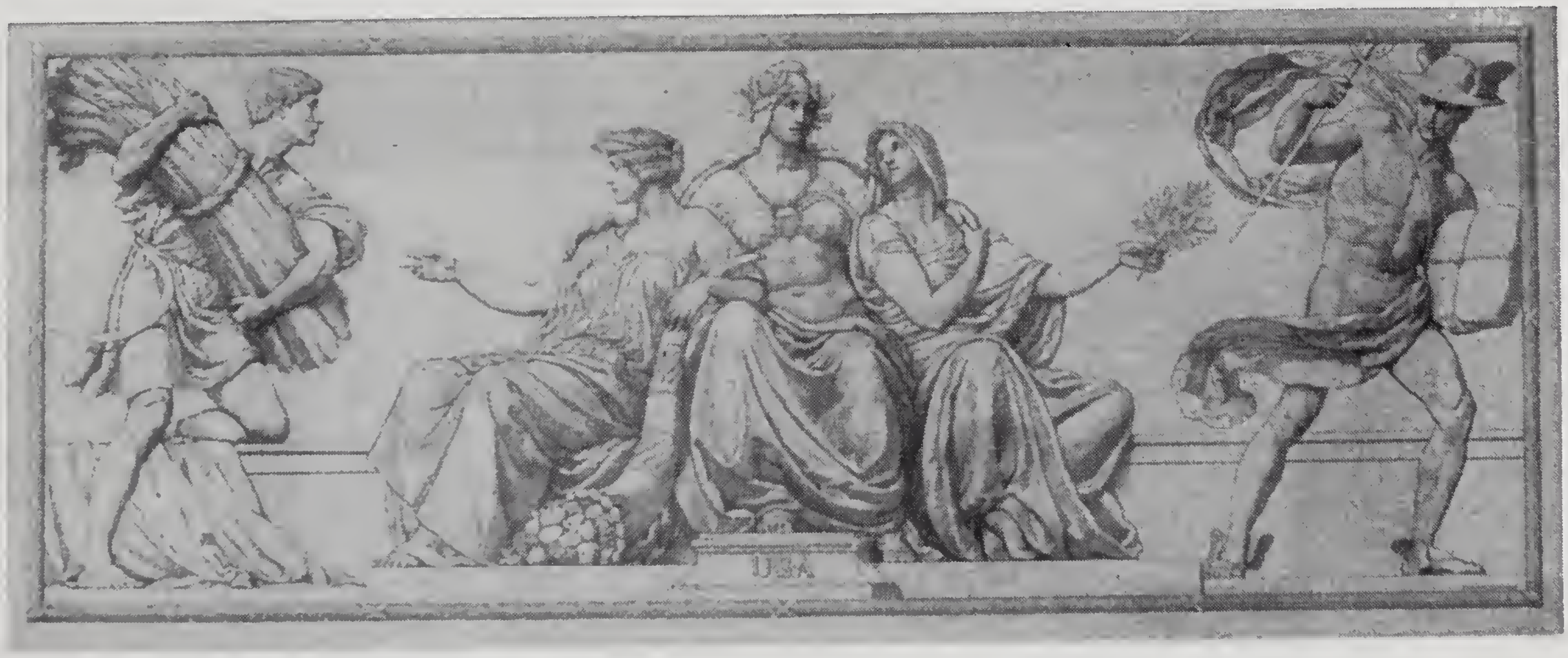
CORNEL, James. *PEng.*

COSTENBADER, William F. *Eng.* b. ca. 1834, d. 27 Nov. 1907. In 1860 he was Foreman of the Engraving Division of American BNCo; from 1882 until 1907 he was Superintendent of the Engraving and Transferring Division of ABNCo.

COUSLAND, William. *LtEng.* b. PA ca. 1825, d. ca. 1860. He was working in Philadelphia from 1847-1860; from 1854-1857 with Bald, Cousland & Co. Cousland was with Baldwin, Bald & Cousland when American BNCo was formed.

COX, George. *LtEng.* He was employed by the Republic BNCo and the E.A. Wright BNCo.

COX, Kenyon. *Art & Des.* b. Warren, OH 27 Oct. 1856, d. 17 Mar. 1919. He studied art at McMicken's Academy in Cincinnati, the Pennsylvania Academy of Fine Art and the École des Beaux-Arts in Paris under Duran and Gérôme (1877-1882). Cox received honorary degrees from Dartmouth and Yale. His mural and decorative work can be seen at the Minnesota State Capitol; the Iowa State Capitol; Winona, MN Public Library; and the Appellate Court, New York City. Cox was one of the muralists to decorate the domes of the Liberal Arts Building for the Chicago Expo. in 1893. He was member of the NAD. *Labor, Plenty, America, Peace and Commerce* on the $100 (back), FRN, H1244 is his design. This design was intended as a uniform back for all small-size U.S. currency. Son, Allyn Cox (1896-1982), also an artist, served as the model for the face of *Commerce* in 1913, when Secretary of the Treasury MacVeagh first conceived the idea of small-size currency.



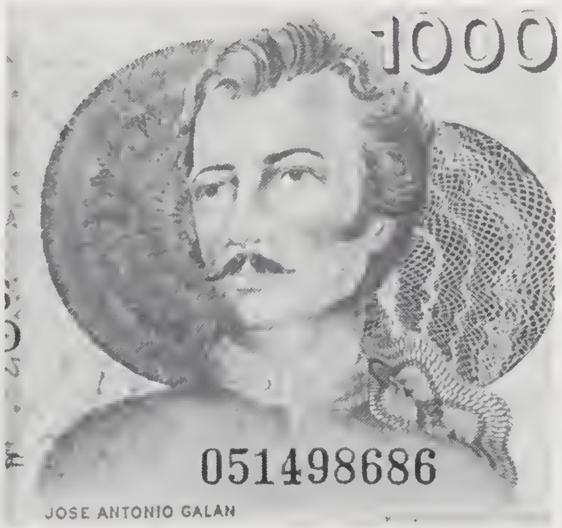
Labor, Plenty, America, Peace and Commerce by Kenyon Cox was engraved by G.F.C. Smillie.

CRANE & Co. Zenas Crane (1777-1845) did not establish his first paper mill in Dalton, MA — the fourth in America — until 1801. On 4 January 1776, Stephen, his father, sold thirteen reams of "money paper," as recorded in his account book, to Maj. Fuller and John Brown; payment was made in cash by Paul Revere on 11 January 1778 (Paper 11). Continental currency and notes from PA and DE were made from this paper. Crane & Company made paper for bank notes as early as 1842. American BNCo has relied on Crane for paper since the bank note company was founded. In 1879 Crane & Company entered into a contract to make paper for U.S. paper money; this service continues today.

CRANZ, Edwin R. *PtEng.* b. Bronx, NY 29 Aug. 1924. He graduated from DeWitt Clinton High School in NYC June 1942. With no formal art training Mr. Cranz began his apprenticeship at American BNCo, 29 June 1942. He was trained as an etcher and engraver under William Ford. He feels fortunate to have worked with Joseph Keller, Elie Loizeaux and Robert Savage, whose portrait he engraved. After two years and 35 missions as an armor gunner in a B-17 (1943-1945), he returned to ABNCo on 24 Oct. 1945. When Bank Note Corporation of America occupied the ABNCo plant in Suffern, NY, when the latter company was sold in 1990, Mr. Cranz was engaged by BNCA. Of the 55 pieces of art R. Lavin did for ABNCo, he engraved 20. Mr. Cranz retired from BNCA in 1991.

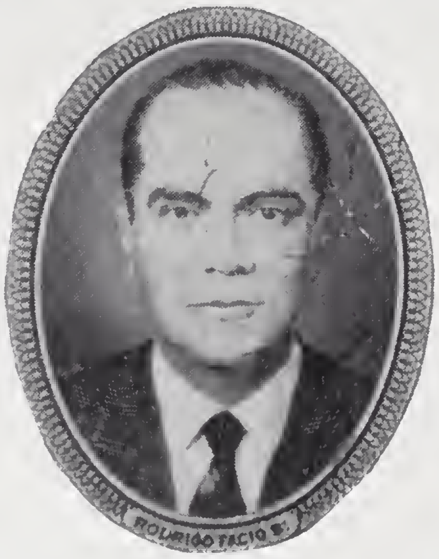
Foreign Bank Notes

Brazil
Airplane, 10,000 cruzeiros (back), P182A.
Scroll work, 10 cruzeiros, P167.



Colombia
Galan, A., 1,000 pesos, P421.

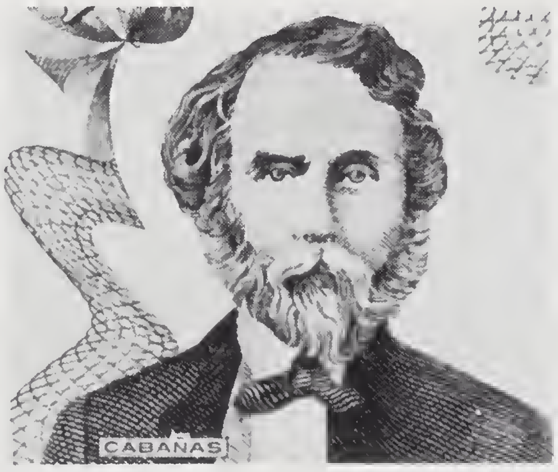
Costa Rica


RODRIGO FACIO B.

Brenes, Facio, R., (eng. with W. Hauck), 10 colones, P235.
Yellow House, 50 col., P237.

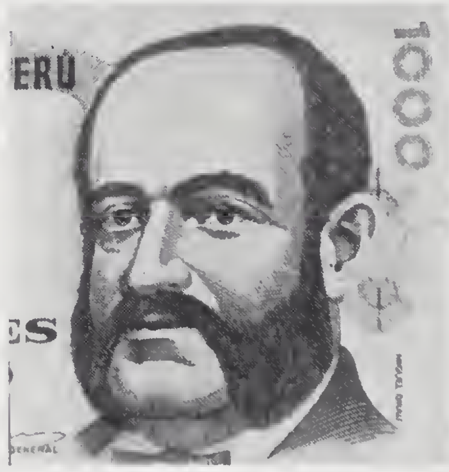
Ecuador
de Sucre, Antonio J., 100 sucres, P100.

Haiti
Arcahaie, Catherine Flon, 1803 (eng. with J. Kisely), 10 gourdes, P247.



Honduras
Cabanas, T., 10 lempiras, P52 & P52A.

Peru
de la Vega, G.I., 10,000 soles, P124.



Grau, M., 1,000 soles, P122.
Mining, 5,000 soles (back), P123.

Venezuela
de Sucre, Antonio J., 10 bolivares, P51.

Corporate Bonds

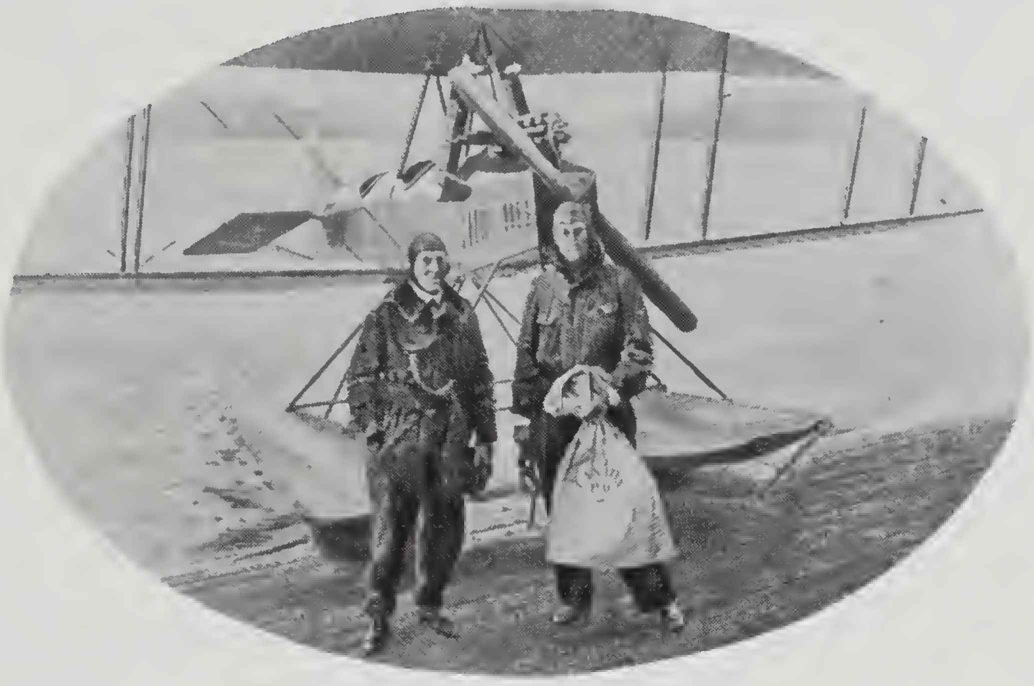
Female (R. Lavin artist), Armour and Co.

Female with Globe (R. Lavin artist), GTE Sylvania.

Stock Certificates

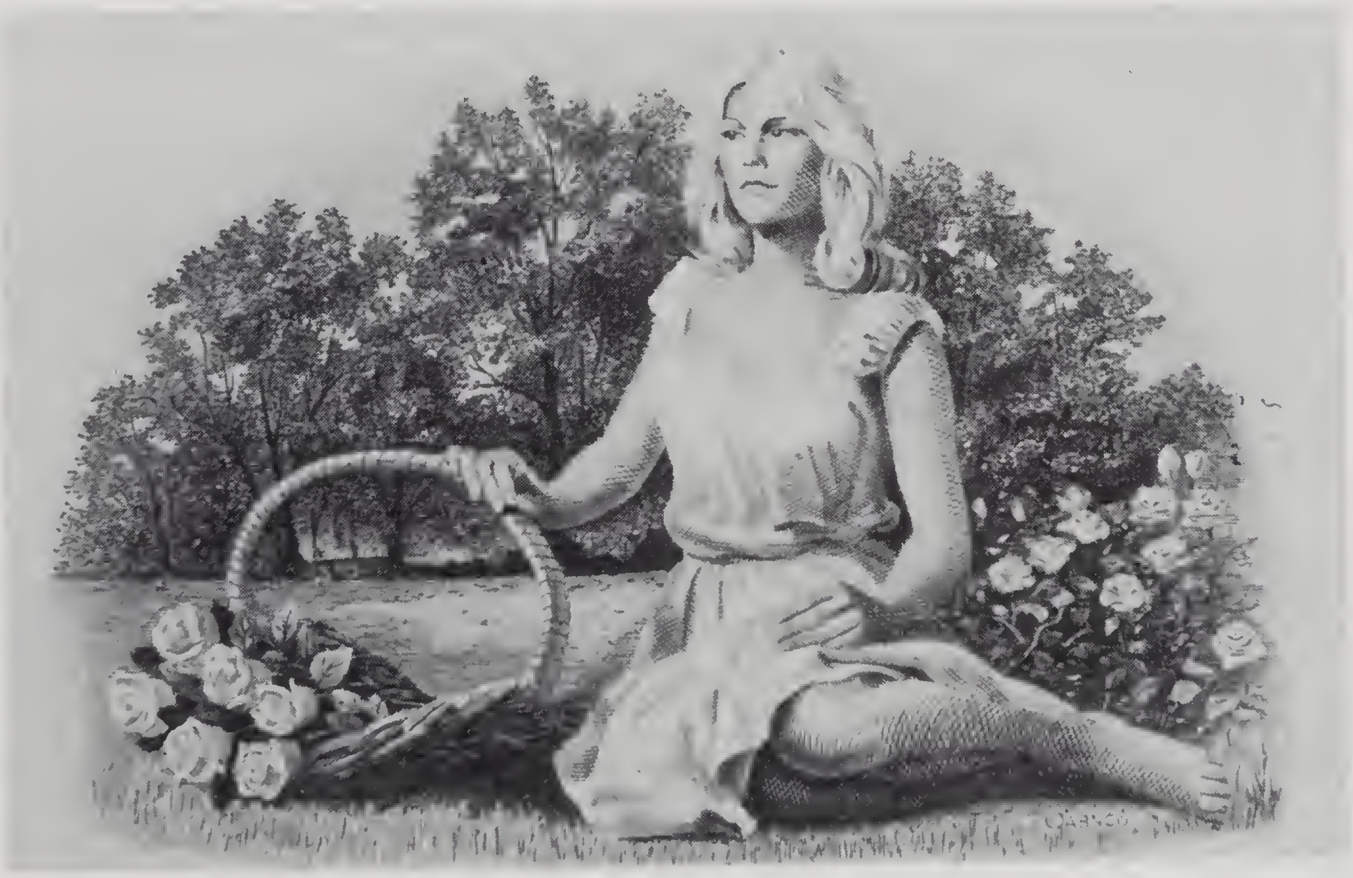
(unless noted, art by R. Lavin).

AT&T Symbol (background for man on globe).



Aviation (two pilots and plane; unknown artist), Boeing Aircraft.

Female, Pioneer Electronic Corp.
Female (arms extended), BanCal TriState Corp.
Female (arms extended), Bunker Hill Income Securities.
Female (seated, left leg extended), Booz Allen Hamilton.
Female: AirWest Inc.; Americana Hotels & Realty Corp.
Female (with Electric Cables), NYNEX (1984).



Female with Basket, First Financial Fund, Inc.

Female with Globe: Diamondhead Corp; GTE Sylvania; Health America Corp. (*Caduceus* was added by R. Barratz, 1984).
Female with Torch, Northeast Utilities.
Fillmore, Millard, Goldome Corp (1984).
Globe & Workers: Acco World; Syms; Trailways; and VWR Corps. (1983-1986).
Lighthouse (unknown artist), UNUM Corp. (1987).

Stock Certificates

(continued)

Male, Female & Building (P. Calle artist), Broadview Financial Corp.
Male, Female & Globe (P. Calle artist), Central and South West Corp.
Male Figures (2), Certain-Teed Corp.
Male Figures (2) & Female (unknown artist), GCA Corp. (1980).
Man with Test Tube on Globe (unknown artist), Englehard Corp. (1987).
Man with Scroll (art by Crosman), Microdot Inc.
Man with Wrecking Ball, Republic Mortgage Investors.
Man, Woman & Boy (unknown artist), J.C. Penney (1975).
Men (2) and Woman, Central Louisiana Electric Co.
Men Shaking Hands (unknown artist), FGIC Corp. (1987).
Mining (unknown artist), Sunshine Mining Co. (1981).
Oil Worker, Ratliff Drilling & Exploration Co.
Paine, W.A., Paine Webber, Inc. (1975).
Power (female seated; art by Crosman), Memorex (1988).
Power (female standing; art by Crosman), Valley National Bank (1988).
Power (unknown artist; eng. with J. Kisely), Gates Learjet Corp. (1979).
Research & Labor (unknown artist), Lukens Steel Co. (1977).
Revolving Glass Entrance (unknown artist), Rockefeller Center Properties (1985).
Satellite, Computers & Transmitters, British Telecommunications, PLC (1986).
Surveyor, Delhi International Oil Corp.
Technician, Doctor & Nurse (originally by J. Kisely, this was reworked by R. Barratz & E. Cranz), Cooper Vision (1983).
Transportation (female), Sea Container (1978).
Wickes Corp. Symbol, Wickes Corp. (1979).Unidentified subjects on the following stock certificates: A.B. Dick, Bethlehem Steel, Cudahy Corp., Eastern Gas & Fuel, General Motors, Hooker Chemical Corp., Kraft Co., Paine Webber, Sears Roebuck, Tropicana Co., and Wells Fargo.

U.S. Postal Panels

Ducks (mallards and pintails, 1985).
Female Swimmer (1979).
Johnson, Lyndon B. (1972).
Robinson Jackie (1982).
Roosevelt, Eleanor (1984).
Roosevelt, Franklin D. (1980).
Thorpe, Jim (1984).

Miscellaneous

Basketball Players, Boston Celtics, Ltd, certificate of partnership (1987).
Japanese Men Carrying Shrine, Metropolis of Tokyo registered instrument (1987).
Males (2) & Female, K-Mart registered instrument (1985).
Ramirez, Alejandro, $1,000 & *Rivera, Luis Muñoz*, $100 savings bonds, Puerto Rico (1976).
Roosevelt, Franklin D., in *Story of American Bank Note Co.*
State of Israel bond.

CRAWFORD, George E. *Trans.* He was employed at the Canadian BNCo, British American BNCo and the Bureau of Engraving and Printing.

CREAMER, Joseph S., Jr. *PEng.* He served his apprenticeship at the Security BNCo. On 2 Nov. 1964 Mr. Creamer joined the Engraving Division at the Bureau of Engraving and Printing, where he engraved numerous postage stamps. He retired on 24 Dec. 1987. Other engravings include the official small presidential portrait of *Gerald R. Ford*, and the *Sailor* on the U.S., military payment certificate Series 681, $5. Mr. Creamer is married to designer Esther Porter.

CREED, William. *Eng.* He came to the U.S. from London and was working in Baltimore, MD in 1792. The $2, $5 & $10 notes issued by the Bank of South Carolina in the 1800s bear his name.

CROATMAN, Charles A. *Trans.* d. 21 Sept. 1933. He was employed at American BNCo from 7 Jan. 1890 until 1933. On 4 Jan. 1930 he became Superintendent.

CROCKER, Frederick W. *LtEng.*

CROOME, William. *Art & PEng.* b. 1790, d. 1860. He was a pupil of Abel Bowen. In 1834 he helped organize Bewick Co., in Boston. In the 1840s and 1850s Croome was in Philadelphia. In 1841 and 1842 he was a member of Croome, Meignelle & Minat, and later Croome & Minat. His last work was for Rawdon, Wright, Hatch & Edson, and American BNCo. The *Arms of Colombia*, on all ABNCo bank note issues for Colombia, 1863-1895, is the work of this engraver.

Corporate Bonds & Stock Certificates

Great Eagle (eng. A. Jones): American BNCo (1893); American Safety Razor Corp. (1919); Diamond Match Co. (1930); International Silver Co. (1927); Pittsburgh Plate Glass Co. (1917); all stock certificates.

Wharf Scene No. 2 (eng. T. House): Detroit Union RR Depot & Station Co.; Georgia Pacific Rwy (both 1882, bonds.).

CROSMAN, John. *Art & Des.* b. ca. 1895. After Feb. 1961 he created art work that was used on stock certificates made by American BNCo ca. 1960.

Corporate Bonds

Civilization (man & seated woman; eng J. Hay), Time Inc.

Energy (female, arms extended; eng. W. Hauck), Rochester Gas & Electric Corp.

Stock Certificates

Female (eng. J. Kisely), Best Products (1979).

Man and Woman (eng. J. Hay), Tandycrafts, Inc.

Man, Woman & Globe (eng. W. Hauck), Acme Cleveland Corp. (1977).

Power (seated female; eng. E. Cranz), Memorex (1988).

Power (standing female; eng. E. Cranz), Valley NB (1988).

Puralator Symbol (eng. K. Guy) (1979).

CULIN, Robert G., Sr. *LtEng.* He was employed at the Security BNCo for 18 years before joining the Bureau of Engraving and Printing ca. 1967. See U.S. postage stamps beginning with 1965 for a considerable number of stamps engraved by Mr. Culin.

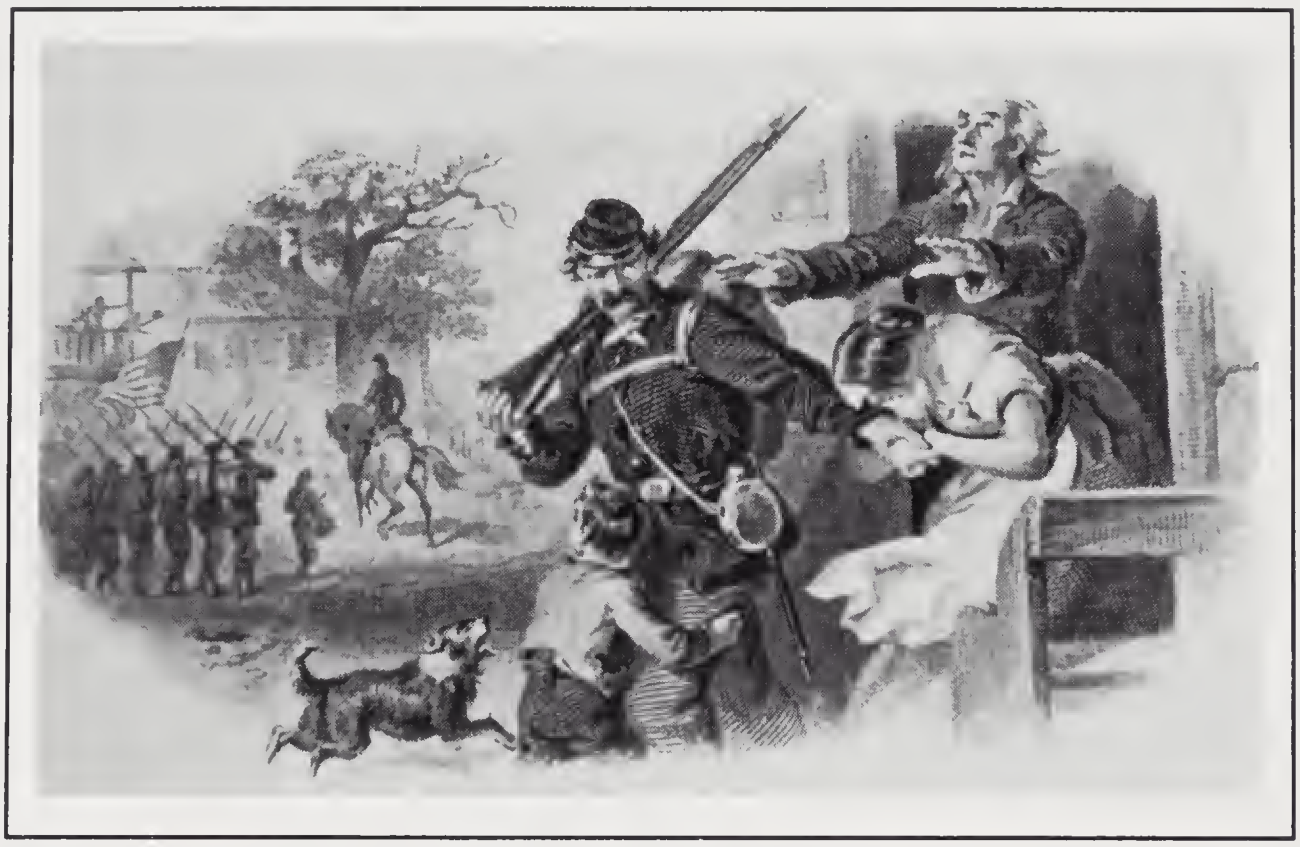
CUNNINGHAM, Alfred W. *ScrpEng.* He was at the National BNCo when he moved to American BNCo ca. 1860 where he remained as late as 1890.

CUNNINGHAM, Anthony W. *LtEng.* b. ca. 1840. He was in New York City in 1854 and was working for American BNCo in 1860; he was there as late as 1891. It is possible that Cunningham also engraved for the National BNCo.

CUSHMAN, George Hewitt. *Art & Eng.* b. Windham, CT 5 June 1814, d. Jersey City Heights, NJ 3 Aug. 1876. Following art studies with Washington Allston and engraving with Asaph Willard, he joined Cheney Bros. in Boston. Cushman was a partner with Ralph

Rawdon in Albany. After 1842 he moved to Philadelphia where he remained for 20 years. There, he engraved numerous F.O.C. Darley illustrations. With (J.) Smillie, Mr. Cushman co-engraved *Civilization* on Columbia 100 pesos, PS372.

CUSHMAN, Thomas H. *Eng.* b. Albany, NY 6 June 1815, d. Albany, NY 17 Nov. 1841. In 1838 he exhibited his engravings at the National Academy of Design. From 1839-1841 Cushman was with Hall, Packard & Cushman.



Volunteers Departure, eng. Charles Burt, art by F.O.C. Darley, uncertain use.

D

DABNEY, Arthur. *Trans.* (see Amendt.)

DAGGETT, Alfred. *LEng.* b. New Haven, CT 30 Sept. 1799, d. New Haven 27 Jan. 1872. He was a member of Daggett & Ely and Daggett, Hinman & Co.

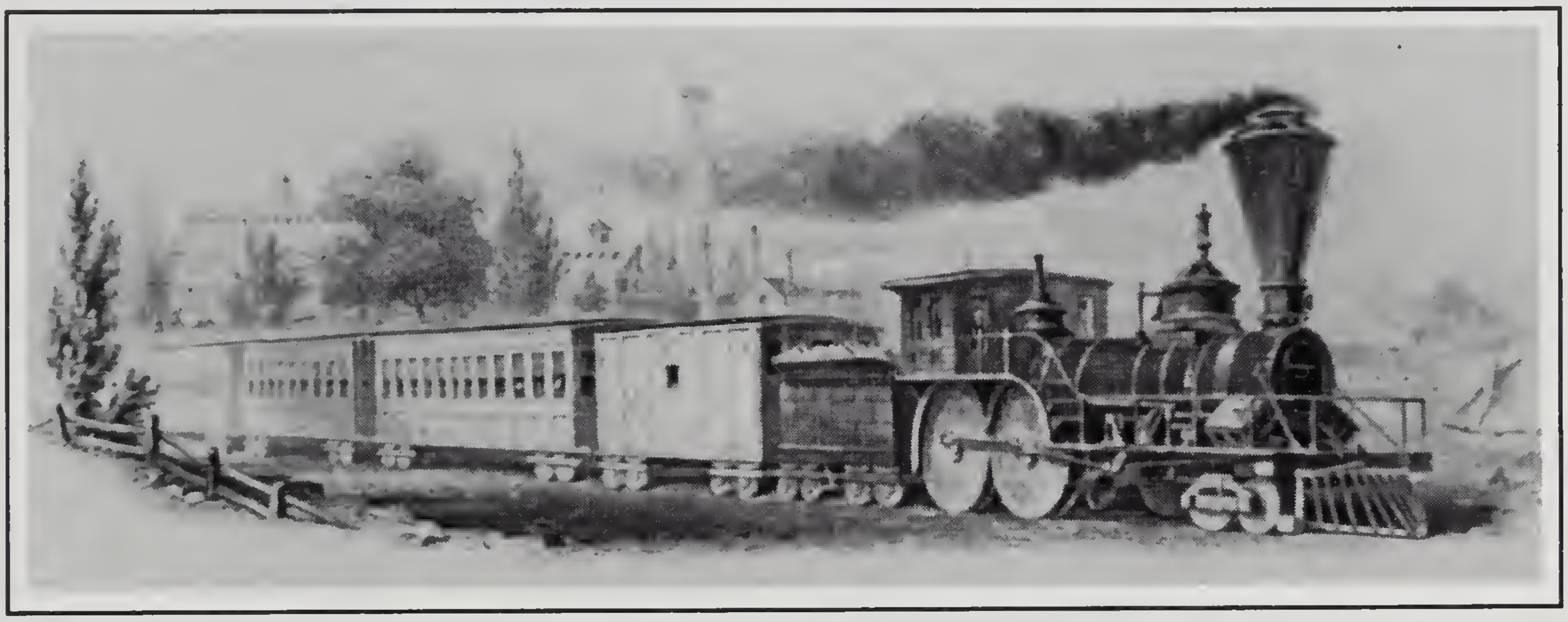
DALMANN, _____. *Trans.* (see Amendt.)

DANFORTH, Edward J. *Eng.* From 1850 to 1858 he was a member of Danforth, Bald & Co. and the succeeding firms. Danforth was a founder of American BNCo.

DANFORTH, George H. *Sid.* b. ca. 1830, d. ca. 1880. He was with Danforth, Perkins & Co. but did not remain with American BNCo when it was organized. Danforth was a founder and trustee of the National BNCo in 1859 where he remained until ca. 1876. In 1878 he became a trustee of ABNCo.

DANFORTH, Moseley Isaac. *Art & PtEng.* b. Hartford, CT 12 Dec. 1800, d. NYC 19 January 1862. His apprenticeship was served with Asaph Willard in Hartford, CT from 1818-1821; he then engraved under his own name. Danforth was in NYC from 1824-1827 when he went to London to study at the Royal Academy where he remained until January 1839. Upon his return to NYC he became a member of Danforth, Underwood & Co. and their successors. Danforth was a vice-president of American BNCo from 1860 until his death. He was a founder of the National Academy of Design. Watercolors were his forte.

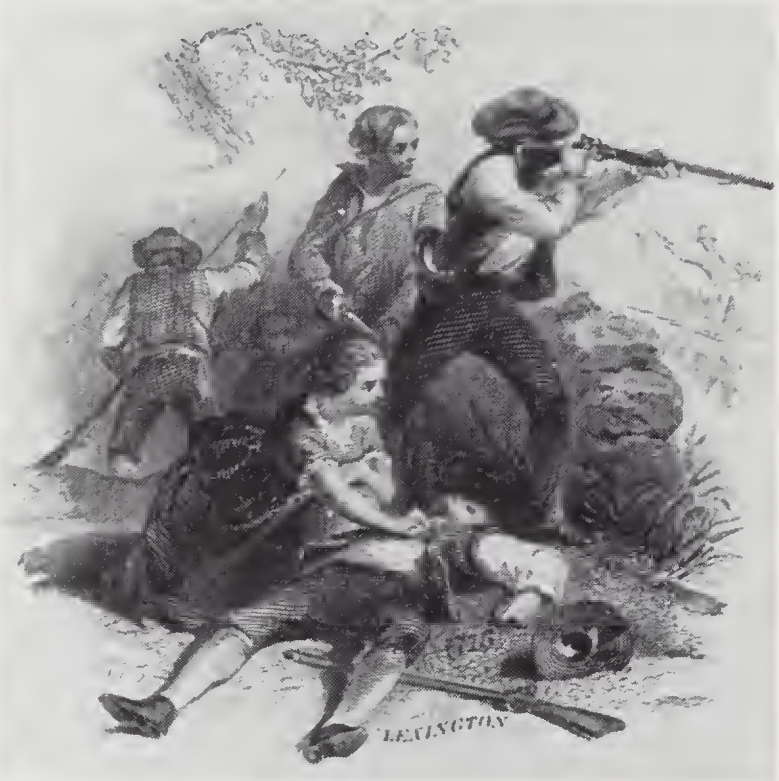
United States Obsolete Bank Notes



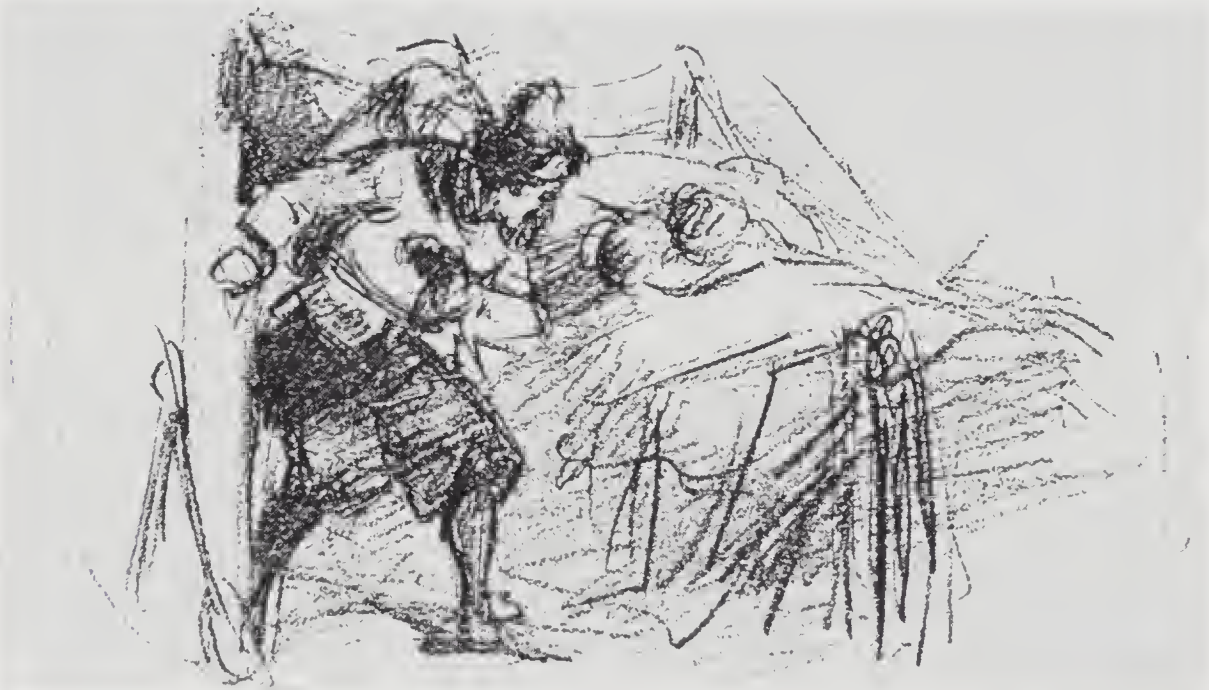
Train of Cars: Mechanics Bank of Memphis, TN $1; Bank of Chattanooga, TN $10; New York Stock Bank, Vincennes, IN $5.

DARLEY, Felix Octavius Carr. *Des & PEng.* b. Philadelphia 23 June 1822, d. Claymont, DE 27 Mar. 1888. This artist, probably self-taught, was in Philadelphia in 1846 and 1847 working as a designer. During mid-1848 he moved to New York City where, in 1852, he was elected a Professional Honorary Member of the NAD; two years later Darley was elected an Academician. In 1855 his studio was at 102 Twelfth St. In 1856 Darley was designing for Toppan, Carpenter & Co.; in 1860 he was doing work for American BNCo. King (p. 141) says Darley made vignette-drawings for Japanese bank notes. If this is accurate, the attractive subjects on some of the Japanese notes (P10-14) could be the work of this artist. He is best known for his illustrations for the works of James F. Cooper, Charles Dickens and Washington Irving; for Cooper, Darley created over 500 illustrations, some of which were adapted for bank notes. The total number of designs for this internationally-known artist, who often referred to his "design disease," is about 4,000. Darley's earliest designs were printed from wood engravings. For these he drew directly, in reverse, onto the wood blocks. Darley also illustrated the works of Harriet Beecher Stowe, Henry W. Longfellow and a Shakespeare edition edited by William Cullen Bryant, in addition to illustrations for *Appletons'* and *Harper's*. In 1866 this sensitive, prolific and well-disciplined artist went to Europe. Darley visited Belgium, England, France, Germany and Italy, where he studied 16th, 17th and 18th century paintings. He was in Europe, for certain, during all of 1866 and returned to the U.S. in mid-1867. In 1866 he exhibited at the Paris Exposition. Darley also exhibited at the Centennial Exposition in Philadelphia in 1876. In 1885 he was elected as an Honorary Member of the Salmagundi Sketch Club. An opinionated and narrow-minded writer in the *London Art Journal* (Oct. 1860, 320), who addressed the merit of Darley's work, remarked that "This is the first time we have ever heard of bank-note engraving being considered applicable, and pre-eminently so, to illustrations professing to have a high Art character." Darley's brother, William, married Thomas Sully's sister, Jane. Darley created the following art work.

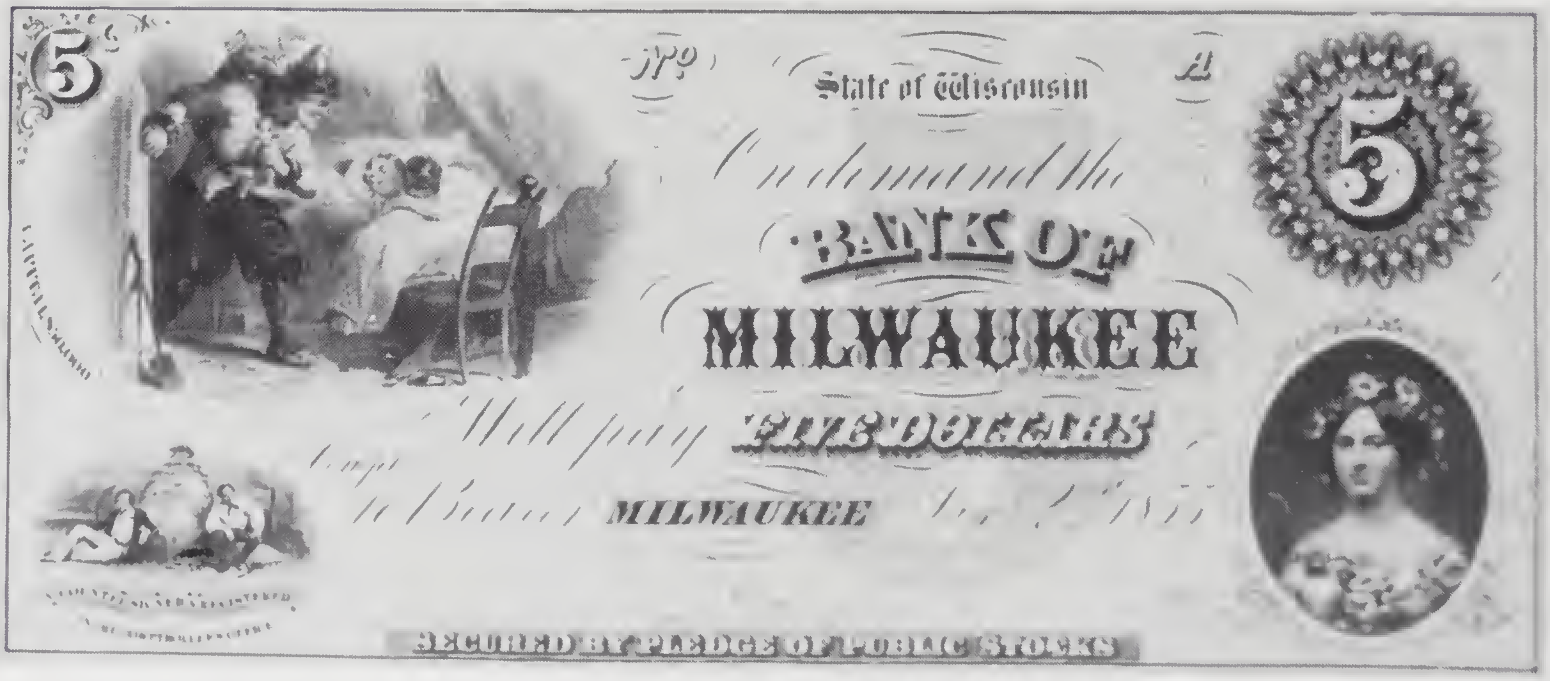
Felix O.C. Darley



Battle of Lexington, USN $20, H728.



An original sketch of St. Nicholas.



St. Nicholas, Bank of Milwaukee $5.

United States Federal Bank Notes & Bonds

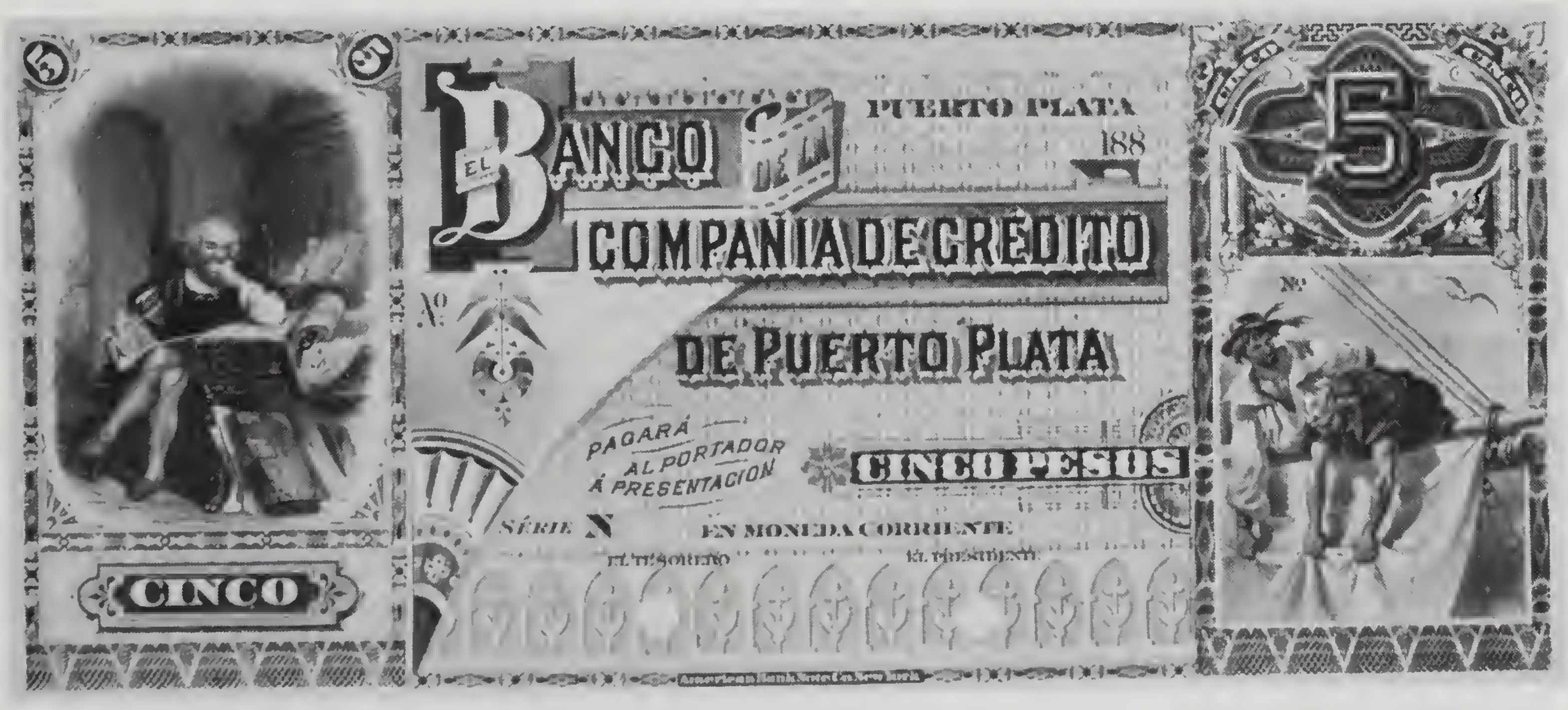
Battle of Lexington (eng. J.I. Pease), $20: NBN, H728-772; NGBN, H799-807.
Landing of the Pilgrims, $5, H380.
The Picket (eng. Timothy House): $100, HX130B; $5,000, HX135B.
Zouave (eng. J.I. Pease), $10,000, HX134E.

United States Obsolete Bank Notes

Cooper, The (eng. W. Shirlaw): Falmouth Bank, MA $100; Commercial Bank, Salem, MA $50.
Cows (engs., J.D. Smillie & A. Jones), Bank of Germantown, Phila., PA $2.
Horse-shoeing: Wrentham Bank, MA $1; Mt. Vernon Bank, MA $10; Bank of Chatfield, MN $2; Mechanics Bank, St. Louis, MO $5; Gloucester Bank, Woodbury, NJ $20; Centreville Bank, Warwick, RI $10.
Jack Knife (eng. A. Jones), Farmers Bank of Reading, PA $1.
Parting Words, County of Erie, PA $2.
Patriots at War: Bank of Quincy, IL $5; Bank of Orange County, Chelsea, VT $1; Continental Bank, Boston, MA $10.
Ploughman Drinking (eng. O.G. Hanks), State Bank of IL $5.
Polar Bear Attack *(The White Bear)* (eng. D.C. Hay), Bank of Germantown, PA $1.
St. Nicholas, Bank of Milwaukee $5.
Saying Goodbye (eng. O.G. Hanks): Planters Bank of the State of GA, Savannah $1; City Bank of Providence, RI $50; Bank of Richmond, VA $100.
Stone Cutter, Northampton Bank, MA $2.
Three Sailors, The Stamford (CT) Bank $10.
War Alarm, The, City of Leavenworth, KS $2.
Washington Encampment: The White River Bank, Bethel, VT $10; The Bank of the City of Petersburg, VA $50.

Foreign Bank Notes

Canada
Drinking at the Brook (eng by W.H. Earle, finished by J.D. Smillie), $2, PS1930.
Ship Carpenter, Canada $10, PS1059.
Colombia
Drinking at the Brook (see Canada), 10 pesos, PS862.
Dominican Republic
Two Sailors at Work (eng. by T. House & O.G. Hanks); *Christopher Columbus* eng. by Charles Schlecht), 5 pesos, PS105.



Stock Certificates

Husking (eng. L. Delnoce), Little Rock & Ft. Smith Rwy Co. (1880).
Indian Camp (eng. C. Burt): Calumet & Hecla (1923); Deadwood Mining Co. (1879); Lyon Gravel Gold Mining Co. (1880).
Milkmaid (eng. A. Jones & J.D. Smillie), Plata Verde Silver Mining Co. (1879).

Miscellaneous

Dock-loading Scene (for ContBNCo), City of Houston, 6% bond (1881).
News From Home (eng. J.D. Smillie & W.W. Rice), Argentina Rep. cp. bd.
To Arms (eng. L. Delnoce & C. Burt), Denver FNB draft (1882).
The Vivandiere (eng. F. Girsch), Greenville (PA) FNB draft (1883).

Washington at Trenton (eng. A. Jones), U.S. Postal Panel (1975).

DARLING, Charles C. *Eng.* d. ca. 1840. From 1831-1834 he was with Jocelyn, Darling & Co.; then Darling moved to Draper, Underwood, Bald & Spencer.

DAVIES,_____. This name appears in the engraving records of Republic BNCo as the engraver of two small female heads, intended for bond coupons. One was done for the Chicago District Electric Generating Co. and the State of California $1,000, 4½% (1929).

DAVIS, _____. *Des.* He was with American BNCo ca. 1860.

DAVIS, James. This printer was probably born in Virginia. He was the first printer in North Carolina, where he began operations ca. 1754. He printed North Carolina notes dated 8 Aug. 1778 and 10 May 1780. Davis was also appointed postmaster.

DAVIS, John S. *PEng.* He was with American BNCo in the 1860s.

Miscellaneous

A Cock, Argentina 50¢, PS1531 & 1466.
Arms of Indiana (art by J.D. Smillie), Indianapolis & St. Louis Rwy. Co. bond (1883).
Capitol Building, the City of Baton Rouge, LA $1.
Eagle's Nest, The, The American Museum of Natural History Membership certificate, 1882.
Pocahontas, Pocahontas Fuel Co. stock certificate.
Wounded Soldier (eng. with J. Smillie), American Red Cross U.S. Postal Panel.

DAVIS, Thomas. He printed North Carolina notes dated 17 May 1783 and 29 Dec. 1785.

DAWKINS, Henry. *Eng.* b. England, d. ca. 1786. He came to New York City ca. 1754 and in Philadelphia in 1757. Dawkins advertised in NYC as an engraver "in all sorts of metal." He engraved portions of colonial notes of Maryland, Massachusetts, New Hampshire, New York, Pennsylvania and Virginia, all dated 1780. In *American Archives*, Peter Force said that Dawkins was imprisoned (in May 1776) for engraving, printing and dispensing counterfeit notes of Connecticut, Massachusetts and New York; there is no record of conviction, as his work for the seven states mentioned suggests.

DAWSON, Clifford. *PEng.* b. ca. 1892, d. 26 Oct. 1944. He began his employment at American BNCo on 3 Jan. 1921; he remained there for over 30 years.

Foreign Bank Notes

Brazil
Canal do Mangue, 50 mil reis (back), P118 & P119.

Escola Naval (eng. with J. Keller), 1 cruzeiro, P132 & P150.

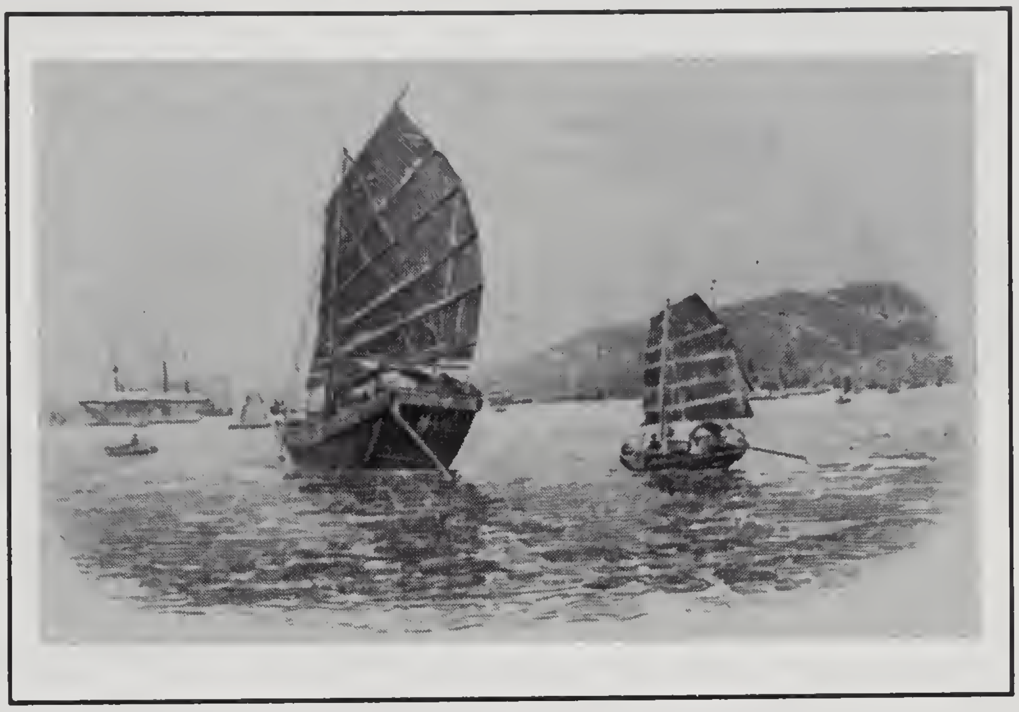
China
Hong Kong Harbour, 10¢, 20¢ & 50¢ (backs), PS2436-2438.

Pagoda, $1, $5 & $10, PS1604-1606.

Pavilion-Harbin, Manchuria (eng. with Harold Dawson), $5, PS1052.

Costa Rica
Volcan, Poas, 20 colones (back), P206.

Greece
Column, 500 drachmai (back), P102.



Honduras
Banco Atlantida, 2, 5 & 10 lempiras (backs), PS122-124.

Corporate Bonds

Electricity, Western Power Corp. (cp. bd. 1925)
Lumber (eng. with W.J. Brown), cp. bds: Hardwood Timber Co. (1928); Mobile & Ohio RR (1927).
Pennsylvania Railroad, two sizes.

Stock Certificates

Airplane (art by Shafer), Transcontinental Air Transport (1928).
Electricity, Western Power Corp (1924).
Mining, (worked over ContBNCo die), Great Northern Iron Ore Properties.
Pyramid, Lehn & Fink Products.

Stamps

Vow of Independence, Chile, Centennial (1910).

Paz del Chaco, Paraguay, commemorative air mail stamp, (1939).

DAWSON, Harold. *PEng.* He was employed at American BNCo at the same time as his brother Clifford. He moved to Canada in the 1920s and probably worked for the British American BNCo.

Foreign Bank Notes

Brazil
dos Portos, Abertura (background only), 500 cruzeiros (back), P172.
Female Seated (background only), 20 cruz. (back), P168.
Man Kneeling (background only), 10 cruz. (back), P167.
China
Pavilion-Harbin, Manchuria (eng. with C. Dawson), $5, PS1052.

Mexico
Arms of Jalisco (eng. with C. Skinner), 5-1,000 pesos, PS320-328.
Arms of Banco de Queretaro (eng. with C. Skinner), 5-100 pesos, PS390-394; 1 peso, PS397; & 2 pesos, PS398.
Miguel Hidalgo Monument (eng. with C. Skinner), 5 pesos, PS305.
San Marcos Cathedral (eng. with C. Skinner), 5 pesos, PS101.

Stock Certificates

Eagle and Globe: American Petroleum Co.; Michigan Stove Co. (1892).

DAWSON, Harry P. *PEng & PtEng.* He came to American BNCo before 1908, and also engraved at Republic BNCo where, among other subjects, he engraved the *First National Bank of Pittsburgh*. Dawson moved to the Bureau of Engraving and Printing and became Superintendent of the Engraving Division on 16 July 1924; he later became chief of the division. He engraved numerous postage stamps. The backs for two Chinese notes are attributed to Mr. Dawson: $10, P27 and $50, P32A; the latter was completed by E. Gunn in 1908. *Essais* for the 1934 Bank of Canada notes were engraved by Mr. Dawson for the British American BNCo; these designs were illustrated in *The Canadian Paper Money Journal*, Vol. 26, No. 4, 1990. As part of this series he engraved the $5 (back) with *Canada* (female figure); $20 (back) with *Transportation*; $50 with *Sir Charles Tupper*; $50 (back) with *Invention* (man and motor).

Foreign Bank Notes

Bolivia

Mining Scene, 100 bolivianos (back), PS177.

Potosi Mountains, 5 bol. (back), PS173.

Canada

Arms of Bank of Montreal, $10-100, PS543-547.

Electric Power, $5 (back), P43.

Harvest, $10 (back), P44.

Train (eng. with E. Gunn), $20, P1380.

Mexico

Banco Hidalgo (eng. with C. Skinner), 500 pesos (back), PS310.

Nicaragua

Building, 50 pesos (back), P33.

Corporate Bonds

Steel Mill-Loading Scene, Illinois Steel Co. 4½% cp. bd. (1910).

Traction Car (eng. with R. Savage), Buffalo and Lake Erie Traction Co. 5% 1st mortgage refunding cp. bd. (1906).

DeBINDER, Clyde V. This siderographer was employed at the Bureau Engraving and Printing in the 1930s.

DE HAAS, Arden. *Art & Des.* He was employed by Quayle & Son.

DELAPLAINE, _____. *Eng.* He engraved for Rawdon, Wright & Hatch about 1812.

DELNOCE, Angelo. *PEng.* This American BNCo engraver was the son of Louis Delnoce. On 27 Sept. 1893 the [New York] *Evening World* reported the arrest of Delnoce for counterfeiting bank notes of Argentina. When arrested at his home in Staten Island, NY a 100 peso plate was found on a printing press. About 1890 DeLnoce left his wife and family to embark on this nefarious path in order to satisfy his hedonistic lifestyle.

Foreign Bank Notes

The Reapers No. 3 (40 mm high, possible reengravings originally done by G.F.C. Smillie) appear on the following: Brazil 20 mil reis PS535, PS612 & PS626; Canada $20, PS1284; Hawaii $100, P10; Mexico 20 pesos, PS347.

Chile

Cupids and Scroll, 2 pesos, PS187.

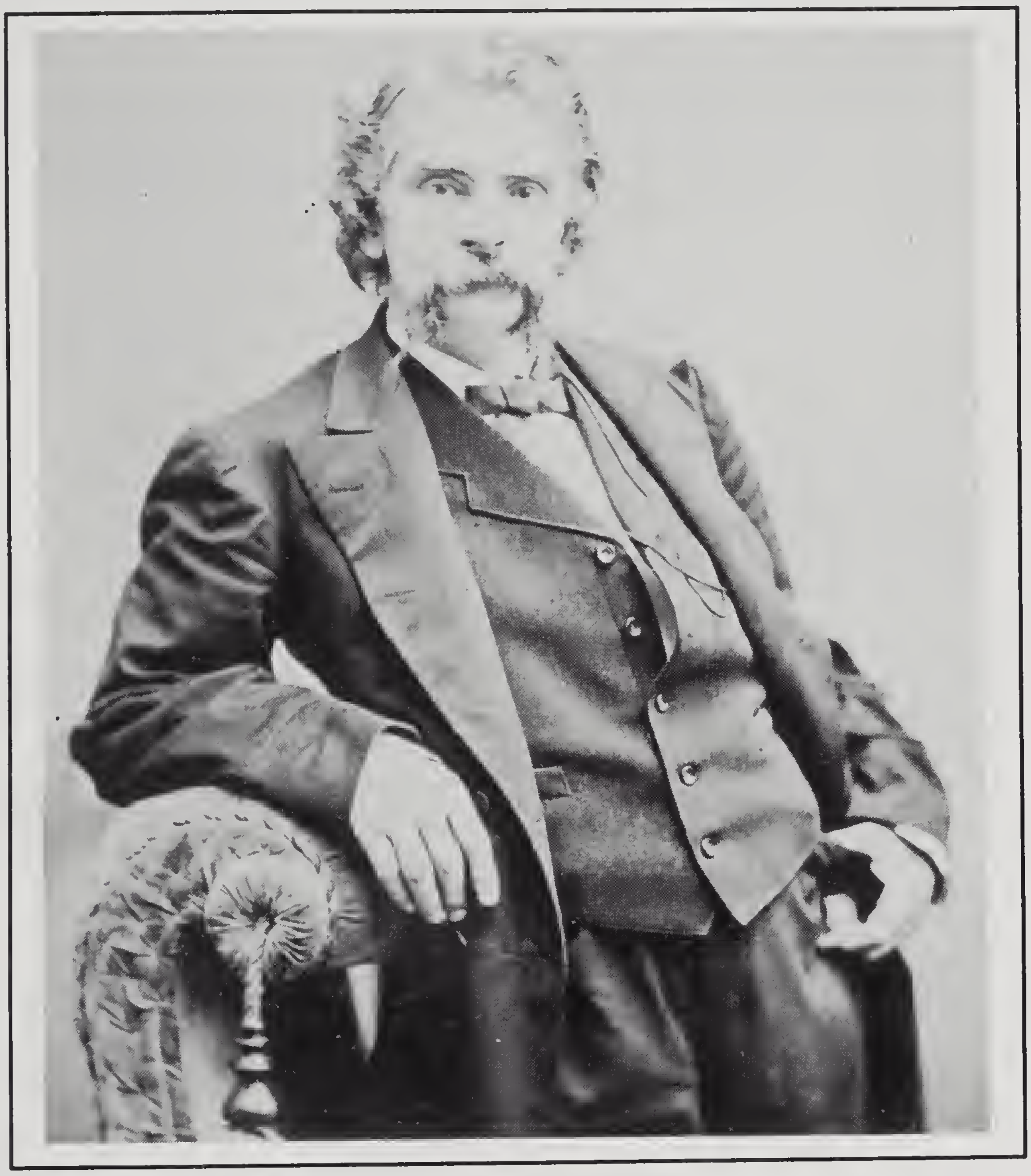
Corporate Bonds & Stock Certificate

Motor Cars: Salt Lake City RR Co.; East Cleveland RR Co.; Denver Consolidated Tramway Co.; Elmira & Horsehead RR Co. (1890), all cp. bds.; Kansas City Elevated Rwy stock certificate (1892).

Rail Road Yard, Northern California Rwy Co., 5% 1st mort. cp. bd.(1889).

The Reapers No. 3 (see foreign bank notes): Cleveland & Wheeling RR Co.; Escanaba, Iron Mountain & Western RR Co.; Kansas City, Watkins & Gulf Rwy Co.

DELNOCE, Luigi (Louis). *PEng. & PtEng.* b. Italy 1822, d. Melrose (Bronx), NY 1890. His professional life began in 1848. Nevertheless, he studied engraving with John W. Casilear from 1851 to 1855. From this time until 1860 Delnoce worked as an engraver of book illustrations. During the 1860s he engraved for the Columbian BNCo and National BNCo. For 20 years after his contract expired in 1870 at the NBNCo Delnoce engraved independently, in his own studio, for American BNCo, Franklin BNCo, Homer Lee BNCo, International BNCo, Bureau of Engraving and Printing and possibly the Continental BNCo. Two pupils of this gifted instructor were Marcus W. Baldwin and Daniel F. Caughlan.



United States Federal Bank Notes & Bonds

Arms of Louisiana for NBN backs.

Battle of Lake Erie, $100: NBN, H1151-1183 and NGBN, H1207-1211d.

Civilization (woman & two children; art by J.D. Smillie), $5,000, HX130E.

Eagle's Nest, The (reworked original by J.D. Smillie); $500 IBTN, H1341-1342; $5000 GC, H1446-1451; $50, HX141G.

Hamilton, A., $2 USN, H153 & 153a.

Justice (art by T.A. Liebler), $5,000 IBTN, H1436-1440a.

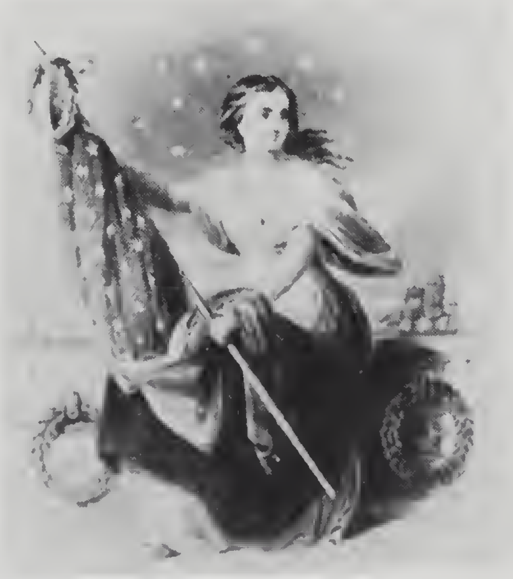
Landing of Columbus, $5 (back) NBN, H274-286 (four additional versions were engraved by others).

Loyalty, $20: NBN, H728-772 and NGBN, H799-807.

Monroe, James, $100 SC, H1212-1221.

Prayer for Victory, $50: NBN, H953-986 and NGBN, H1013-1014f.

Reconstruction, $100 USN, H1122-1136.



Stars and Stripes, $2 NBN, H171-177.

Washington Resigning his Commission (eng. with Frederick Girsch): $100 (back) NBN, H1403 and $5,000 (back) FRN, H1461.

United States Obsolete Bank Notes

Army & Navy (artist, Herrick): Mt. Holly Bank, NJ $1.50; Harrisburg Bank, PA $3; USN (essai) $3, 1862.
Bear Attack: Exchange Bank, Glencoe, MN $2; Manitouwoc County Bank, WI $1.
Camping Scene, Union Military Bond, Jefferson, MO $5 (1866).
Girl at the Spring (art also by Delnoce), McKean County Bank, Smethport, PA $1.
Minnehaha, Bank of Minnesota, St. Paul $2.
Sewing Machine, The, Marblehead Bank, MA $2.
The Sisters (art & eng.): Bank of the State of Kansas $1; Massasolt Bank, MA $100; McKean County Bank, Smethport, PA $1; Mauch Chunk Bank, PA $1.
The Yarn (artist, C. Schussele): Citizen's Bank of Louisiana $5; Farmers and Merchants Bank, Washington, DC $1.75; Greensborough, MD $2.
Red Stick, City of Baton Rouge, LA $1.

Foreign Bank Notes

Argentina
Ostrich, 1 peso, PS1525.
Brazil
On the Plains, 500 mil reis *essai* ca. 1889.
Port of Recife, 100 mil reis, PS586.
Canada
Arms of Quebec, note issues between 1863 & 1898.
Girl with Sheaf (artist, T.A. Liebler), $20, PS1026.
Lassoing Cattle, (art by J. Smillie), $10 PS1496.
Plenty No. 2 (art & eng.), $4, PS1017.
Chile
Plaza-Santiago, 5 pesos, P12.
Plenty No. 1, 20 pesos, PS279.
Prat, Arturo, 20 pesos, PS220.
The Reaper or *Girl with Sheaf and Sickle*, 1 peso, PS108.
Tropics No. 2 (art by L. Delnoce; eng. with F. Girsch), 100 pesos, PS467.

China
Eh-Fen-Ding Pavilion, $5, PS859.
Colombia
Factory in the Tropics, 1 peso, P74.
Female with Globe (eng. A. Jones), 10 pesos, PS868.
La Siesta (etched), 25 pesos, PS452.
Costa Rica
The Signal Station, 10 colones, PS174.
Ecuador
The Reaper or *Girl with Sheaf and Sickle*, 5 pesos, PS242.
El Salvador
Female, 100 pesos, PS206.
Girl with Sheaf (artist, T.A. Liebler), 1-25 colones, PS211-215.
Hawaii
Globe, $100, P4.
Lassoing Cattle (art by J.D. Smillie), $10, P1.
On the Plains, $100, P10.
Mexico
Columbus, 5 pesos (back), PS257.
Cowboy and Steers, 50 pesos, PS236.
Female, 100 pesos, PS199.
Female, seated (*Bildhauerei*), 1 peso, PS445.
Female with Globe (eng. with A. Jones): 50 pesos, PS166 & 500 pesos, PS262.
Girl with Sheaf and Sickle, 100 pesos, PS269.
Gold Mining-1880, 10 pesos, PS234.
La Siesta (etched by L. Delnoce), 50 pesos, PS260.
Lassoing, 20 pesos, PS259.
Mining Scenes, 10 pesos, PS234.
Monument, 5 pesos (back), PS705A.
On the Plains, 100 pesos, PS442.
Plenty No. 2 (art & eng.), 100 pesos, PS223.
Train, 20 pesos, PS431.
Tropics No. 2 (eng. with F. Girsch; art by L. Delnoce), 10 pesos, PS193 & PS258.
Urania (eng. with A. Jones), 500 pesos (left side), PS262.

Paraguay
Female with Globe (eng. with A. Jones), 50 pesos, PS150.

Peru
Plenty No. 2 (art & eng.), 50 soles, P8.
U.S.S.R.
Agriculture, 100 rubles, P42.

Venezuela
Tropics No. 2 (eng. with F. Girsch; art by Luigi Delnoce), 100 bolivares PS168.

Corporate Bonds

Arms of Michigan, St. Joseph RR (1884).
Bridge Scene, NY & Massachusetts RR Co.
Canal Lock, Chesapeake & Delaware Canal Co. (1897).
Excavators (art by J.W. Ehninger), Union Pacific Rwy (1882).
First Telegram (artist and eng.), American Cable Co. cp. bd.
Gold Mining 1880: Alaska Gold Co. (1888); St. Joseph Lead Co. (1931).
Indian Family, Edison Electric Illuminating Co. of New York, cp. bd. (1890).
Loyalty (eng. by G.F.C. Smillie), Atchison Pacific RR Co. (1880).
Railroad Cars in Tunnel, West Chicago Sheet Road Tunnel Co.

Stock Certificates

Apotheosis of Washington (art and eng.), Thames Bank & Trust Co. (1930).
Arms of Connecticut (art also by L. Delnoce), Russell, Irwin Manufacturing Co. (1881).
First Telegram (art by L. Delnoce; eng with J.D. Smillie), American Cable Co.; Commercial Telegram Co. (1880).
First Reading of the Declaration of Independence, Colonial Trust Co. 1896.
Husking (art by Darley), Little Rock & Ft. Smith Rwy Co. (1880).
Oil Wells (see C. Copeland).
Railroad Yard, Delaware RR Co. (1890).
Telegram No. 2 (seated woman) (art by L. Delnoce: eng with J.D. Smillie), Gold & Stock Telegraph Co.
The Signal Station, Atchison, Topeka & Santa Fe, 1896.
Train, South Carolina & Georgia RR Co.

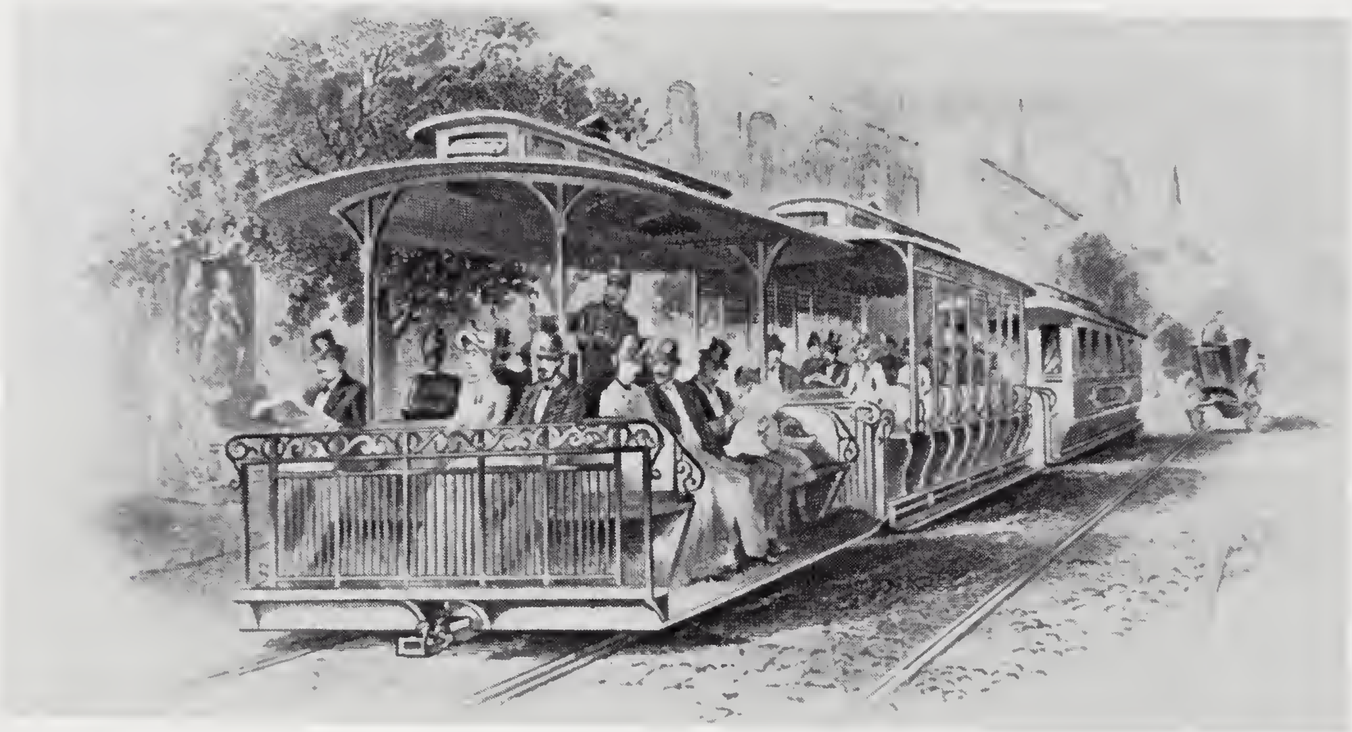
Stamps

Canada
Victoria, Queen, 9¢, 10¢, 20¢ & 50¢ bill stamps (1864).
Peru
Llamas, 5¢, 10¢ & 20¢, A12, A13 & A14.
Spain
Alfonso XII, King (eng. with G.F.C. Smillie), 2, 4, 5, 10, 20, 25 & 40 pesetas, A40.

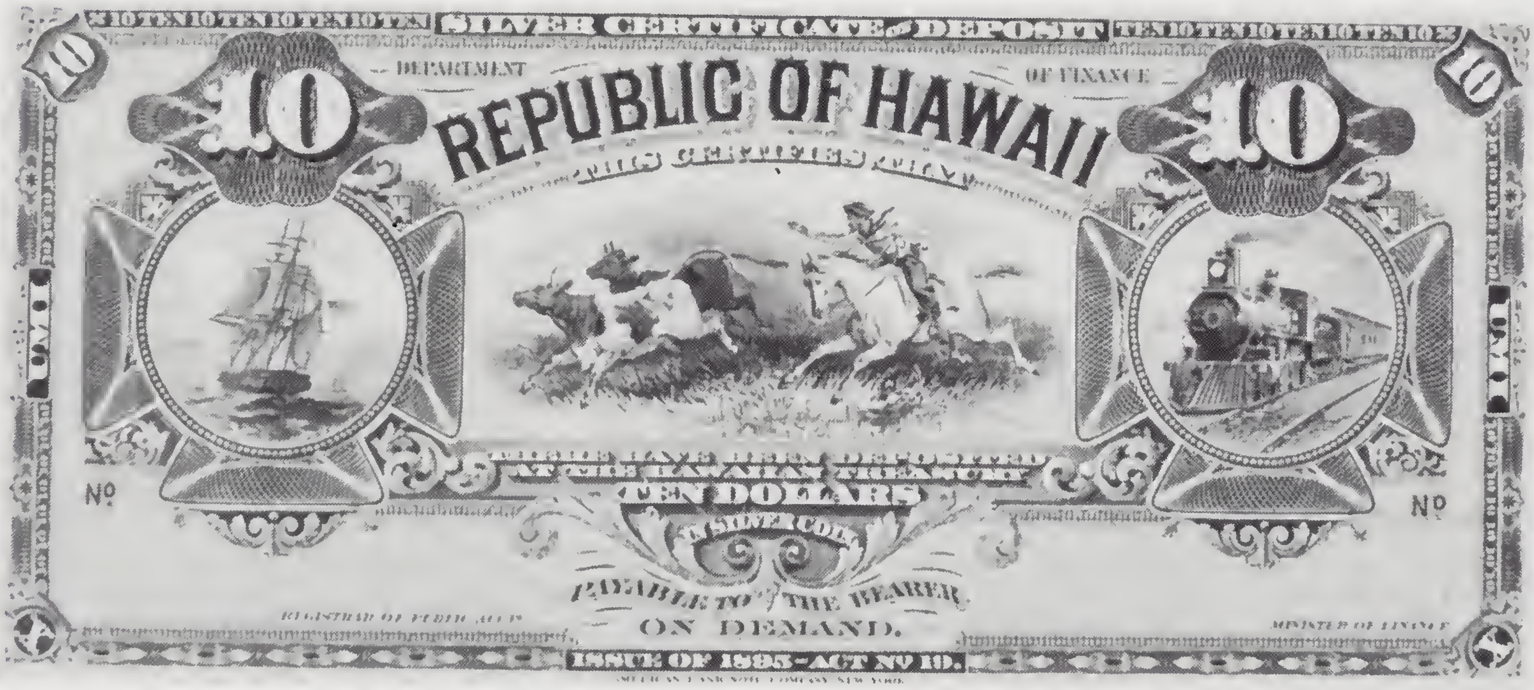
Miscellaneous

Arms of Quebec (art by H.W. Herrick), use uncertain.
Arms of Russia: 65, 40 & 32 mm wide, uses uncertain.
Arms of St. Petersburg, use uncertain.
Indian Family, First National Bank of Saratoga Springs draft, 1881.
Minnehaha, Republican National Convention ticket, (7 June 1892).
To Arms, Denver First NB draft(1882).

Gold Mining — 1880, eng. Louis Delnoce.



Motor Cars, eng. Angelo Delnoce.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SILVER CERTIFICATE of DEPOSIT
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DEPARTMENT
OF FINANCE
REPUBLIC OF HAWAII
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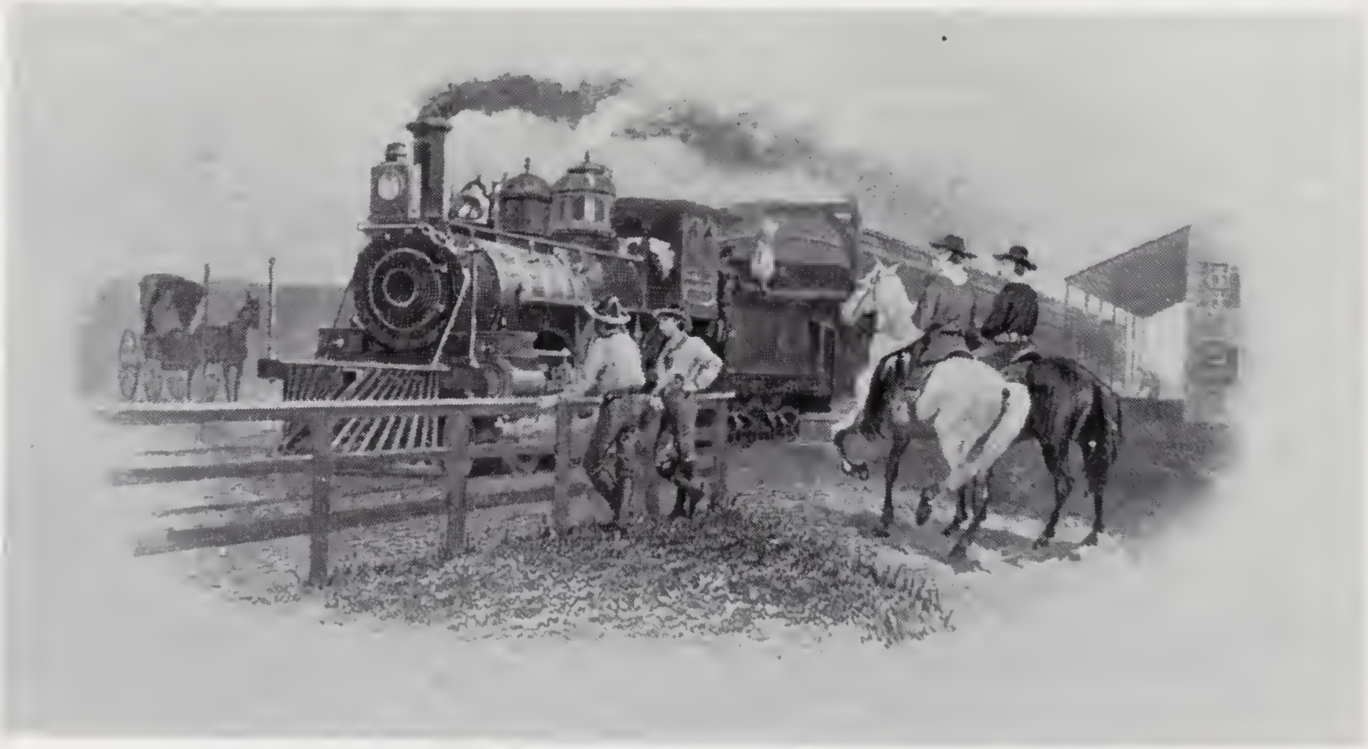
TEN DOLLARS
IN SILVER COIN
PAYABLE TO THE BEARER
ON DEMAND.
ISSUE OF 1895 - ACT No 10.

Hawaii $10, P1: *Lassoing Cattle*, eng. Louis Delnoce, art by J.D. Smillie.



On the Plains, eng. Louis Delnoce, Jr.

DELNOCE, Louis, (Jr.). *PEng.* b. ca. 1873, d. 13 Apr. 1943. This excellent and prolific engraver, an undetermined relative of Luigi Delnoce, began his career at American BNCo on 28 Oct. 1905, and was there as late as 1942. In 1924 he engraved the *U.S. Capitol Building* for the Republican National Convention ticket.

Foreign Bank Notes

Brazil

Battle of Guararapes, 100 mil reis (back), P60 and 200 mil reis (back), P107.

Primiera Missa, 200 mil reis, PA254; 50 mil reis, P49; 1,000 cruzeiros P141 (backs of all).

Bulgaria

Port of Varna, 500 leva, P42.

Shepherd & Sheep (eng. with M.W. Baldwin), 50 leva (back), P40.

Canada

Sailing Ship, $10, PS633.

Windsor Castle from the Brocas, $25, P48 & P49.

China

Bridge & Buildings, $1-100, PS253-257.

Buildings-Shanghai, 10 yuan, P62A.

Chinese Post Office Building (finished by E. Gunn), $5 & $10, P129 & P130.

Dah Ming Hu Building, 20¢ & 50¢, PS2755 & PS2756.

National Industrial Bank, 1, 5 & 10 yuan, P531-533.

Ship & Tugboats, 500 yuan, P163.

Costa Rica

San José Fountain, 2 colones (back), P203.

Santo Tomas University, 100 colones (back), P212.

Curacao

Ship Loading, 2½ gulden, P36.

Czechoslovakia

Czech River Scene, 500 korun, P16.

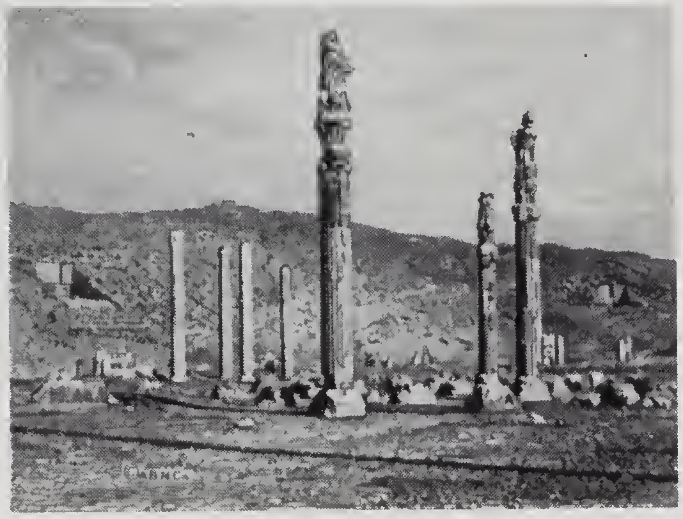
Greece

Apollo, Temple of, 1,000 drachmai, P69.

Poseidon, Temple of, 500 drachmai (back), P68.

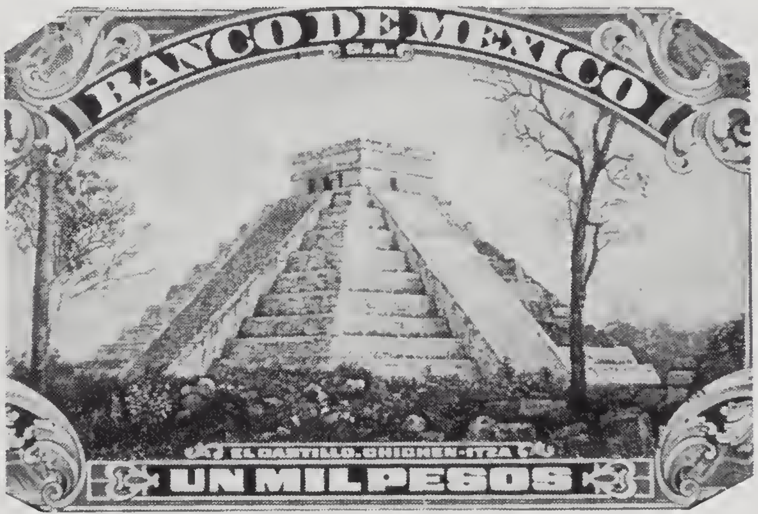
Honduras

Morazan Monument, 1-20 pesos, PS141-145.



Iran

Ruins of Xerxes, 100 rials, P22.



Mexico

Castillo Chechen Itza, 1,000 pesos, P721.

Chapultapec, 100 pesos (back), PS261A.

Ixtaccihuatl Papocatepetl, 50 pesos (back), P707.

Victory Monument, 5-1,000 pesos, P699-705.

Surinam

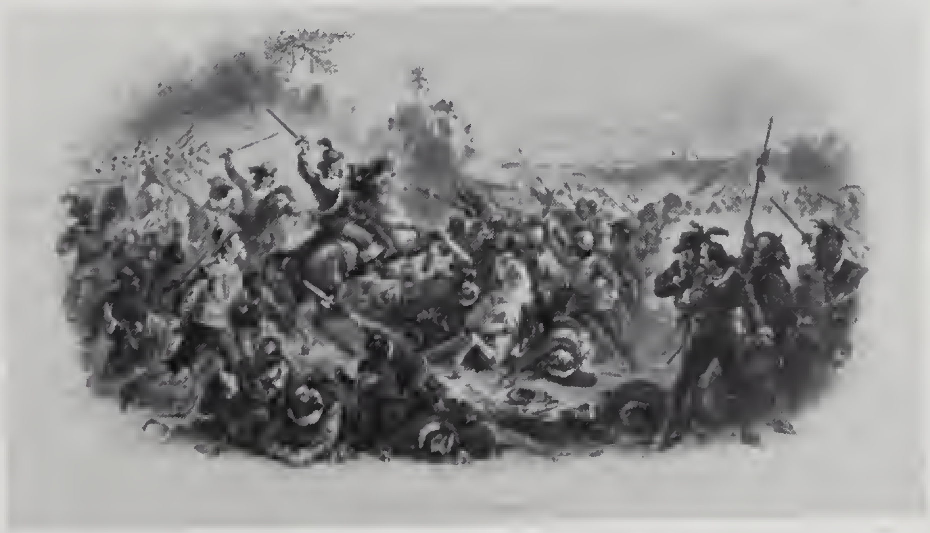
Government House, 5 gulden, P7-10.

Venezuela

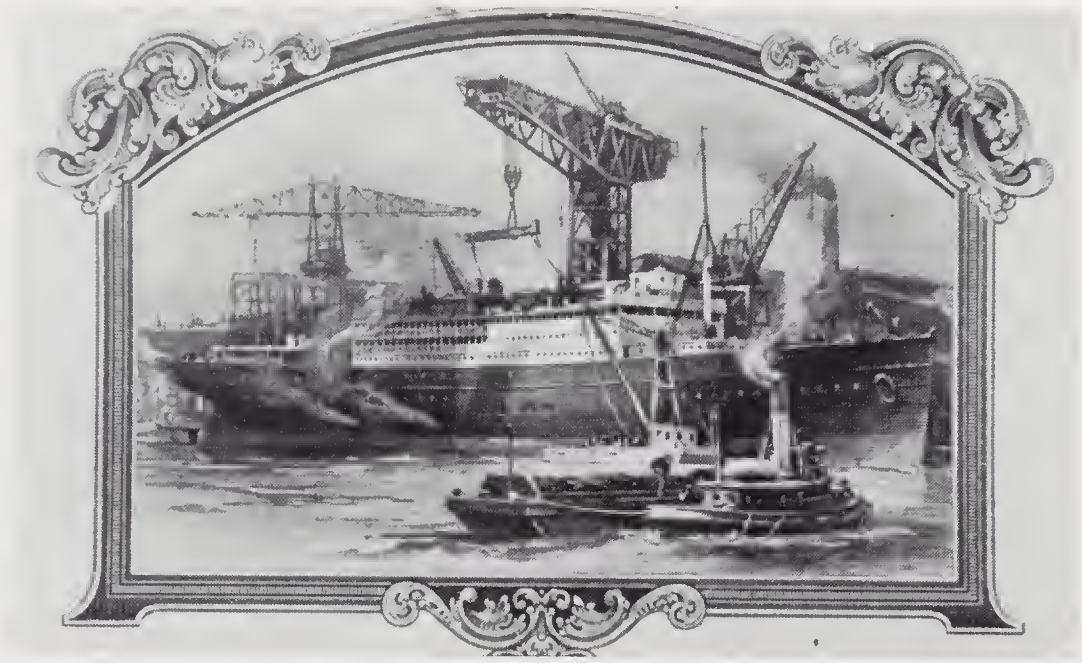
Arms of Venezuela, 20-500 bolivares, P32-37.

Yugoslavia

Placa Donosiocu, 10 dinars (back), P21.



Battle of Guararapes, Brazil 200 mil reis (back), P107.



Ships & Tugboats, China 500 yuan, P163.

Corporate Bonds

Adair Realty & Trust Co. Symbol, cp. bd. (1924).
Cabin Creek Refining, Pine Oil Co. (1923).
Pioneer Spirit (etched; eng. W. Adolph & S. Smith): Northern Pacific Rwy; Oregon, Washington RR & Navigation Co. (1944).
Science, Labor & Manufacturing (art by A. Foringer, background only eng. by L. Delnoce, Jr.): Brooklyn Union Gas Co.; General Cable Corp., both cp. bds.
Shipping, Gulf, Mobile & Northern RR reg. & cp. bds. (1925).
Surveying the Rockies: South Pacific Co. (1927); Texas & Pacific Rwy (1927); Wabash Rwy. Co. (1926).

Train (art by L.S. Shafer), Southern Sugar Co. (1927).
Trains, Toledo & OH Central Rwy reg. & cp. bds. (1935).

Stock Certificates

Bananas (eng. W. Brown, finished by E. Gunn, altered by L. Delnoce, Jr.) United Fruit Co. (1920)
Cabin Creek Refining, Pine Oil Co. (1923).
J.P. Morgan Building, (1940 & 1983).
Pioneer Spirit (eng. with W. Adolph): INB Financial Co. (1989);Indiana National Corp. (1977); Pacific Power & Light Co. (1945); RKO (1950).
Science and Manufacturing (eng. with W. Adolph), Libby-Owens-Ford Co.
Science, Labor & Manufacturing (see bonds): Monsanto Chemical (1959); INCO Ltd. (1979); Southern Sugar Co. (1927).
Steamship, Detroit & Cleveland Navigation Co. (1925).
Wrigley Building, (1923).

DELNOCE, Vincent R. *LtEng.* b. ca. 1852, d. ca. 1900. He was at American BNCo ca. 1887. He could be a son of Louis Delnoce.

DELNOCE, W. He was at American BNCo ca. 1885.

DeLONG, Walter. *Pr.* This printer and engraving-prover began his employment at American BNCo in June 1909. He was transferred to the Design Dept. on 15 Jan. 1936.

DE MARS, Louis. *ScrpEng.* He was employed at Republic BNCo in the 1930s.

DENNISON, _____. He was a plate printer with the Western BNCo.

DENVIEN, _____. *Trans.* (see Amendt.)

DERR, Albert. *Trans.* He was employed at American BNCo in 1861.

DERR, Alfred. *Eng.* He was employed at the Philadelphia office of American BNCo in 1862.

DICK, Alexander L. *PEng.* b. Scotland ca. 1805. He came to the U.S. in 1833 and studied with Robert Scot, who had come to the U.S. from Edinburgh, Scotland ca. 1781. All the plates that originated from his business bore his name, therefore his individual work is indistinguishable.

DICKENSON, John. *Trans.* He was employed at American BNCo in the 1860s.

DICKINSON, Charles Wesley. *Sid & GLO.* b. 1865, d. Belleville, NJ 5 Oct. 1937. Until about 1885 he was with American BNCo as an operator of a transfer press and a geometric lathe, at which he is recognized as the master. In 1885 he joined his father C.W. Dickinson, Jr. who made bank note machinery, including geometric lathes, in Belleville, NJ. This machinery was used by ABNCo, British American BNCo, Canadian BNCo, the Bureau of Engraving and Printing and others. In 1900 Dickinson became the president of the firm his father had founded.

DICKINSON, Philemon. *Sid.* b. ca. 1835, d. ca. 1890. He was at American BNCo in 1859 and was the Foreman of the Transfer Dept. at ABNCo ca. 1887.

DIETZ, Adolph. *ScrpEng.* d. 5 Oct. 1937. He was employed at American BNCo from 3 Nov. 1927 until 30 Jan. 1931. Dietz was rehired on 17 Aug. 1936 and remained there until his death.

DINGEE, H. *LtEng.* d. 1930. He began his employment at American BNCo on 20 May 1917.

DINTAMAN, Arthur W. *PEng.* b. Lebanon, PA 29 Apr. 1919. His education in Washington, DC included art studies at the Abbott School of Fine and Commercial Art, and the Corcoran Gallery School of Art (1939-1941). Dintaman's apprenticeship at the Bureau of Engraving and Printing began on 20 March 1939; he was appointed an engraver on 20 March 1943. He engraved two official portraits, Richard Nixon (lg.) and Chief Justice Earl Warren, and about 30 postage stamps before he retired on 15 Jan. 1974.

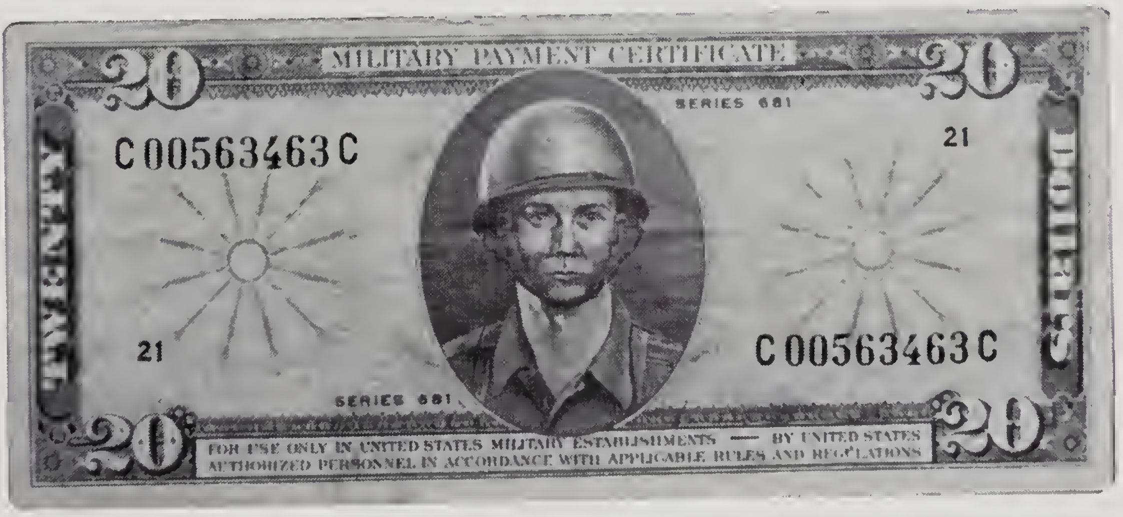
Military Payment Certificates

Liberty, Series 611, 10¢, S-B61.

Europe (female profile), Series 641, $5 (back), S-B72.

Tank, Series 681, $10, S-B95.

Soldier, Series 681, $20, S-B96.


MILITARY PAYMENT CERTIFICATE
SERIES 681
20
C00563463C
21
TWENTY
DOLLARS
FOR USE ONLY IN UNITED STATES MILITARY ESTABLISHMENTS — BY UNITED STATES AUTHORIZED PERSONNEL IN ACCORDANCE WITH APPLICABLE RULES AND REGULATIONS

DIXON, Paul. He was a designer at American BNCo and is credited with *Quarry Train* (eng. by J.D. Smillie) on the New York, Rutland Montreal Rwy stock certificate (1883).

DODD (DADD), _____. *Trans.* (see Amendt.)

DOE, E. He was in the General Engraving Division of American BNCo in 1911.

DOE, James. He was in the General Engraving Division of American BNCo as early as 1885 and as late as 1911.

DOE, John. *Trans.* He was with American BNCo in 1862 and as late as 1885.

DOERFLINGER, Charles. *Trans.* (see Amendt.)

DOERFLINGER, Joseph. *Trans.* (see Amendt.)

DONKIN, Bryan. *Inv.* b. 1768, d. 1855. Between 1801-1810, he invented and built the first practical papermaking machine. This, and improved versions, completely displaced handmade paper. In 1819 he applied his talents to the making of bank note paper. Donkin also invented a pantagraph machine in 1820; it was used at the Bank of England.

DOOLITTLE, Amos. *Eng.* b. Cheshire, CT 18 May 1754, d. New Haven, CT 30 Jan. 1832. He was working in New Haven, CT in 1775. From 1782-1800 he was a partner of Nathaniel Jocelyn. Doolittle engraved scrip that was used as tickets for the Hartford & New Haven Turnpike (1799). In the previous decade Doolittle engraved four scenes related to the American Revolution that were drawn by Ralph Earl; these could be the first historical engravings done in America. Examples of his work appear on Connecticut banks of Middletown and New Haven.

DOOLITTLE & MUNSON. This firm operated in Cincinnati in 1842; their work included bank notes. A. (not Amos) Doolittle, and S.B. Munson were the probable partners.

DOOLITTLE, Curtis M. *Eng.* He was a member of Doolittle & Munson in Cincinnati from 1831 to 1850.

DOUGAL, W.H. *Eng.* b. 30 Jan. 1822. His apprenticeship began at age 15 followed by independent work in Washington, DC. After a trip to CA (1849 & 1850), Dougal returned to Washington to work for the Bureau of Engraving and Printing, although he continued his independent work. His original name, according to Alfred Jones, was MacDougal. When he deleted the prefix is unknown.

DOUGLAS, F. James. *ScrpEng.* He was working at the Security BNCo in 1949.

DOUGLAS, John. *Eng. & Lith.* b. Ireland ca. 1826. in the 1860s he was located at 10 Camp St., New Orleans. Vignettes on his advertising card were also used on CSA bonds. Douglas was the successor to T.H. Shields in New Orleans (1854-1870).

DOWLING, T. Joseph. d. 2 March 1936. He was the Superintendent of Design at American BNCo. Mr. Dowling joined ABNCo on 18 March 1907.

DOWNS, George W. *LtEng.* b. ca. 1850, d. ca. 1900. He was with American BNCo as early as 1881 and as late as 1887.

DOWNS, Stephen. *LtEng.* b. ca. 1825, d. ca. 1890. He was with American BNCo as early as 1881 and as late as 1887.

DOXON, Walter. *Sid.* He was at the Bureau of Engraving and Printing ca. 1900.

DRAPER, John. *LtEng.* b. PA 16 May 1779, d. 7 Feb. 1865. This engraver came to Philadelphia ca. 1792. His teachers could have been Bartholomew Green and Robert Scot; Dunlap states that Draper was an assistant to the latter. From 1794-1803 Draper engraved for *Rees' Encyclopedia.* He co-founded the firm of Murray & Draper in 1810; the following year Gideon Fairman joined the firm. In 1818 Draper withdrew, and about four years later rejoined the company known as Fairman, Draper, Underwood & Co. This firm was succeeded by others. Draper withdrew again in 1835, and with James B. Longacre joined Charles Toppan & Co. Sometime prior to 1845 John Draper, with sons Robert and William, formed Draper & Co. The senior Draper retired in 1853. The ultimate firm, Draper, Welsh & Co., joined the formation of American BNCo in 1858. If Draper was born in 1770, as some contend, he could be the engraver of the (old plate) Bank of the U.S. notes (1791). His name is in the left border of Bank of the U.S., branch discount and deposit notes.

DRAPER, Robert. *Eng.* b. Philadelphia ca. 1820, d. ca. 1870. In 1846, he joined his brother and his father in Draper & Co. From 1851-1856 he was with Draper, Welsh & Co. Draper remained when American BNCo was formed in 1858; in 1863 he was manager of the Philadelphia branch.

DRAPER, William. *Eng.* b. ca. 1827, d. ca. 1850. He was the son of John Draper and was with Draper & Co. from 1845 to 1850.

DUCHESNE, Alex. This engraving-prover was employed at American BNCo from 8 August 1928 until 21 January 1932.

DUDLEY, _____. *Trans.* (see Amendt.)

DUFRESENE, Aime. *ScrpEng.* After engraving at the British American BNCo this engraver joined American BNCo on 19 May 1924. Dufresene was there as late as 1936.

DUGAN, Thomas J. *GLO.* He was employed at Quayle & Son in the 1930s.

DUMMER, Jeremiah. *Eng.* He engraved Connecticut notes dated 12 July 1709 and New Hampshire notes dated 1709 and 1717.

DUNHAM, William S. *Eng.* He was working in New York City in 1852.

DUNCAN, Blanton. *Pr.* He moved from Kentucky to Richmond to set up a printing plant at the request of Confederate States of America Secretary of the Treasury Memminger. Duncan is personally responsible for locating a paper mill in Nashville, TN that made 350,000 sheets of paper to be used for printing Confederate notes. In 1862 Duncan went to Charleston, SC and "seized the printing equipment and supplies of Evans & Cogswell and F.W. Borman, official printer to the State of North Carolina" (Hughes 1991, 29).

DUNLAP, _____. *Eng.* He engraved for Rawdon, Wright & Hatch in 1813.

DUNLAP, John. *Pr.* b. Ireland ca. 1746, d. Philadelphia 27 Nov. 1812. He served his apprenticeship under William Dunlap, his uncle. He printed Pennsylvania notes dated 10 Apr. 1777 (both issues), 29 Apr. 1780, 20 Apr. 1781 and Virginia notes dated 7 May 1781. Dunlap retired comfortably in 1795. Philadelphia property that he had acquired from the government in settlement of printing obligations was sold in 1809 for an immense sum.

DUNN, George. *Eng.* b. Scotland. He was brought to this country by Confederate States of America Secretary of the Treasury Memminger. Under the name of Dunn & Co. this Richmond firm was a primary producer of CSA stocks and bonds.

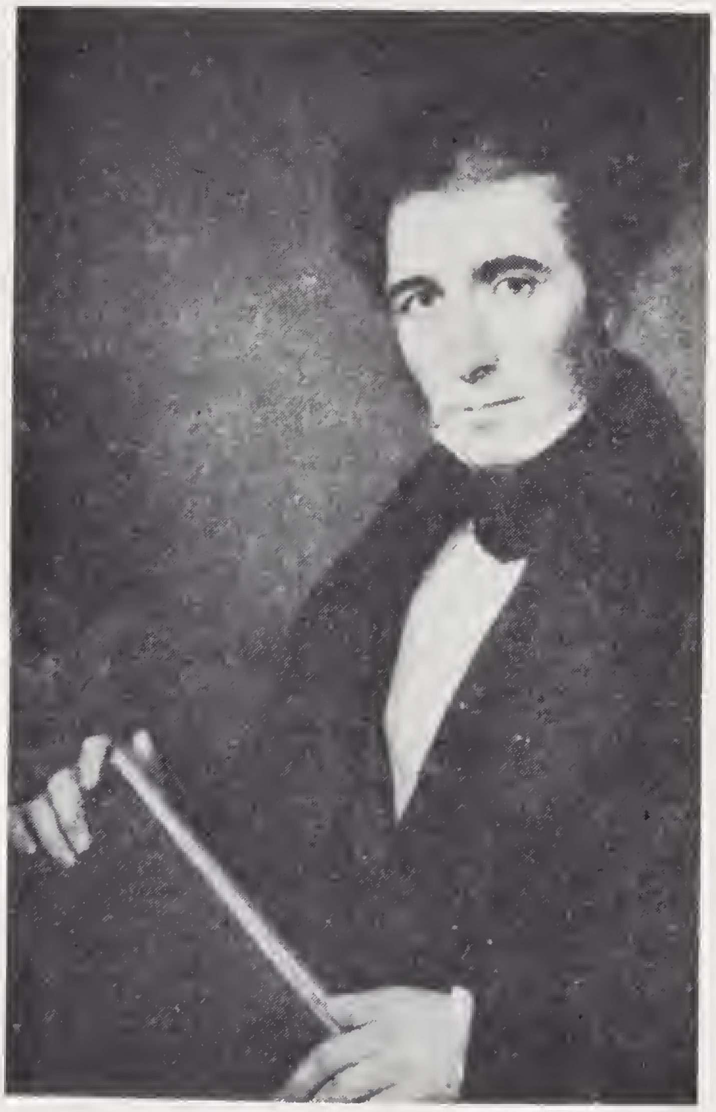
DUNN, James. *LtEng.* b. ca. 1850, d. ca. 1912. He was with American BNCo as early as 1879, when he signed die proofs of 10¢ and 30¢ U.S. postage stamps. Dunn retired on 27 Nov. 1918 after 50 years of service.

DUNNELL, Eldridge G. *Eng.* d. ca. 1850. He was a student at the National Academy of Design in 1837 and worked with Alfred Jones at 34 Liberty St. in New York City. Dunnell probably worked for Rawdon, Wright, Hatch & Edson, but relinquished his profession to join the ministry.

DUNNELL, William N. *Eng.* He worked in New York City (1846-1856); during 1847 and 1848 Dunnell was with Enos Baldwin.

DUPRIEST (DEPRIEST), William. In October 1767 he was charged with counterfeiting Maryland $8 notes. He is also alleged to have counterfeited Virginia and Carolina currency. Before the hangman could perform his duty, Dupriest took an overdose of laudanum (*Maryland Gazette*, 17 March 1768, p. 2).

DURAND, Albert G. *Art, Eng & Mach.* He was working in New York City with Rawdon, Wright & Hatch from 1833 to 1834. In 1842 Durand was with Durand, Hammond & Mason in Cincinnati. From 1848 to 1850, along with Cyrus Durand, his father perhaps, A.G. Durand was with Durand, Baldwin & Co. in NYC.



DURAND, Asher B. *Art, PEng & PtEng.* b. Jefferson Village (Maplewood), NJ 21 August 1796, died South Orange, NJ 17 Sept. 1886. He served his apprenticeship under Peter Maverick in 1812 and in a few years surpassed his master in technique; he became a partner with Maverick in 1818. With brothers Cyrus and John, Asher formed his own engraving company in 1820. At young ages, at home, each learned to engrave watchcases and other small objects, nevertheless, Asher preferred drawing. John Trumbull heard of the young engraver and commissioned Asher Durand to engrave his *Signing of the Declaration of Independence* for $3,000; this was a three-year project. From 1828-1833 he engraved independently, then joined Rawdon, Wright & Hatch. By 1836 Durand decided to concentrate on painting; he was in Europe in 1840 and 1841. He became an exponent of the Hudson River School of Painting. Durand served as president of the National Academy of Design and had John W. Casilear and George W. Hatch as students. A number of his original drawings for bank notes are in the Print Room at the New York Public Library.

United States Obsolete Bank Notes

Amphitrite: Franklin Bank, NJ $3; State Bank, Charleston, SC $20.

Angel and Cupid: IL Rock River RR Co. $3; State of IN $1.

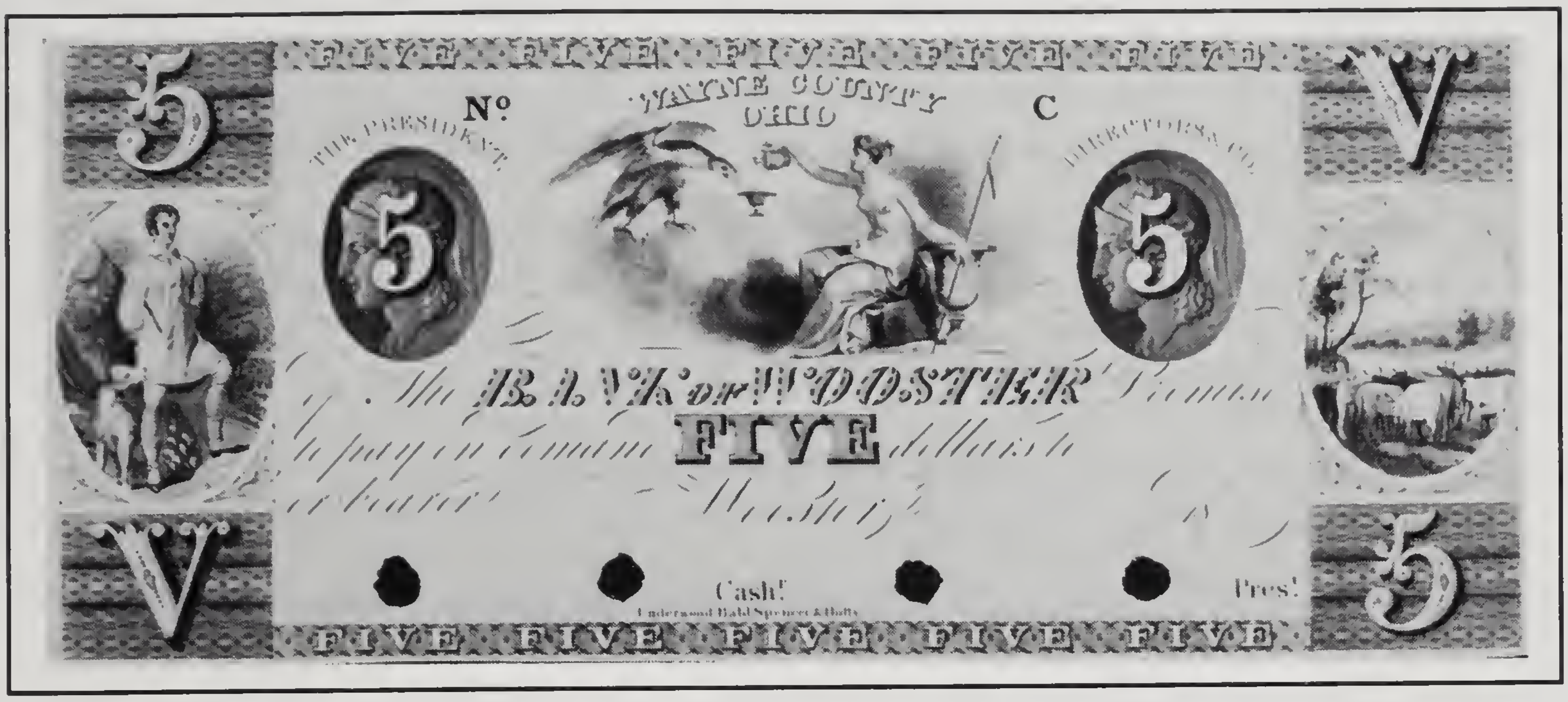
Archimedes, Bank of Augusta, GA $4.

Ceres: Bank of Monroe, MI $1; Lewis County Bank, Martinsburgh, NY $3.

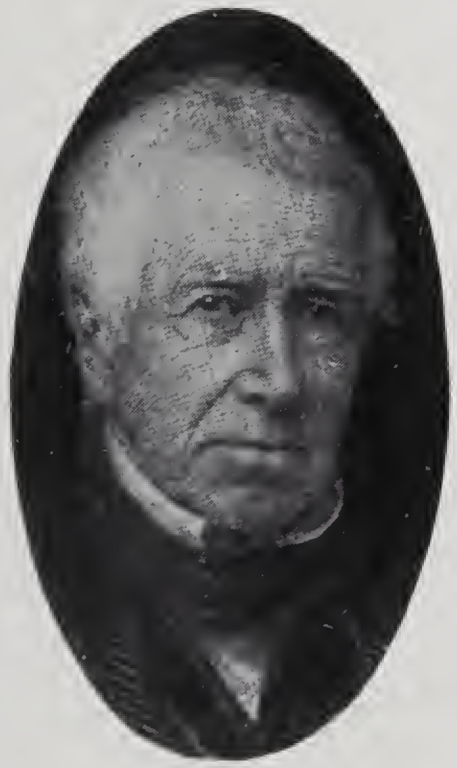
Franklin, Benjamin: Franklin Silk Co., Franklin, Portage County, OH $5; Hoboken Banking and Grazing Co., NJ $1.

United States Obsolete Bank Notes

(continued)



Hebe: Bank of Wooster, OH $5; The National Bank, NY $5.
Jupiter: New Hope Delaware Bridge Co., Lambertville, NJ $2.
Literature: Bank of (Newport) RI $2; Bank of East (Knoxville) TN $5.
Neptune, Augusta Insurance & Banking Co., GA $50.
Shield, Bank of the State of AL 25¢.
Washington, George: Bank of West Florida, Appalachicola $10; Morris Canal & Banking Co., Jersey City NJ $3.
Washington on Horseback: Monmouth Bank, Freehold, NJ $5; State of IN $5; Bank of MS $100; Bank of Mt. Vernon, IN $5; Mechanics Bank at Newark, NJ $2; Mt. Vernon Bank, Providence, RI $50.



DURAND, Cyrus. *Inv, Mach & LO.* b. Jefferson Village (Maplewood), NJ 27 Feb. 1787, d. Irvington, NJ 18 September 1868. At age 18 he made a machine that enabled him to cut wheels for the clocks that he assembled. Other inventions include machines to make waved and straight lines, another for ovals, a pantograph for reducing ovals, a lathe for turning woodwork, a geometric lathe for making waved ovals, and a transfer machine. For the partnership with his brother, Asher, he invented the geometric lathe that would cut infinite patterns of waved circles and ovals. In 1823 Durand joined C.C. Wright in NYC; the following year A.B. Durand became a partner. Joseph Perkins joined the firm of Durand, Wright & Co. in 1826. In 1836 Cyrus Durand opened a factory in New Jersey to make machinery. He founded the successful engraving firm of Durand & Company in New York City (1839-1842). From 1848-1850 he was a partner in Durand, Baldwin & Co.; from 1853-1858 a member of Danforth, Wright & Co. Unable to come to an agreement with American BNCo, Cyrus Durand joined the National BNCo in November 1859. "Cyrus Durand (geometric lathe)...-worked on the three values of National's (sic) 1861-1867 series" (Morris 41).

DURAND, John. *Eng.* d. ca. 1820. He is not credited with engraving bank notes. Nevertheless, John Durand, who was affiliated with A.B. Durand during 1821-1822, was considered the most talented engraver in the Durand family.

DURAND, Theodore. *Eng.* In 1834, soon after he appeared in New York City, he joined Casilear, Durand & Co. and remained with Casilear, Durand, Burton & Edmonds from 1835-1837.

DURAND, William. *Eng.* This nephew of Asher B. Durand possessed a considerable amount of mechanical ability. He engraved for bank note companies in New York City.

DURELL, _____. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1812.

DUTHIE, James. *PEng.* b. England, ca. 1825, d. ca. 1865. He was engraving in Albany, NY in 1846 and was a partner in Gavit & Duthie in 1849 and 1850; he also engraved for Rawdon, Wright, Hatch & Edson. In 1812 Duthie was the first engraver to be engaged for the National Currency Bureau (BEP).

United States Federal Bank Notes

George Washington: FC 5¢, H1506-1509; 10¢, H1518-1523b, and H1579-1585.

DYMOCK, James P. d. 29 Jan. 1945. He was in the General Engraving Division of American BNCo in 1911.

E

EARLE, Henry. *Des.* b. Philadelphia, PA 31 March 1827, d. Montreal 12 Oct. 1914. He began his engraving career under Charles Toppan ca. 1840 and was with Toppan, Carpenter when American BNCo was formed in 1858. Earle was employed at the Philadelphia office of ABNCo in the early 1860s. With W.C. Smillie he founded the British American BNCo in Montreal; he served as secretary and treasurer. Earle is buried in Woodlands Cemetery, West Philadelphia. He is the father of Henry Earle, Jr. and brother to John and William. He executed the lettering and framework on U.S. postage stamps (1851-1860) produced by Toppan, Carpenter, Casilear & Co.

EARLE, Henry Jr. *Art & Eng.* b. Philadelphia, PA ca. 1850. He went to Montreal with his father, Henry, and learned engraving.

EARLE, Howard Irwin. *LtEng.* b. Philadelphia, PA 10 June 1863, d. Washington, DC 14 Feb. 1931. He studied engraving with his father, John, and in 1891 joined John Earle & Son, Engravers at 202 S. 5th St., Philadelphia. Later, Earle moved to American BNCo and remained until 5 Sept. 1917. He joined the Bureau of Engraving and Printing on 14 Nov. 1917 and retired on 14 Feb. 1931. He engraved the 1929, Canal Zone 3¢ and 12¢ postage stamps.

EARLE, John. *LtEng.* b. Philadelphia, PA 18 Aug. 1830, d. Primos, PA 26 Jan. 1905; he is buried in Woodlands Cemetery, West Philadelphia. He is a brother of William and Henry, with whom he studied engraving. John Earle engraved for Butler & Carpenter; Joseph R. Carpenter; American BNCo in Philadelphia; and perhaps the Philadelphia BNCo. Before 1891 he patented a pantagraph machine; the patent was sold to ABNCo after his death. The Canadian patent went to the British American BNCo. With his son, John, John Earle & Son operated at 202 S. 5th St. in Philadelphia. With Alfred B. Steel he held Patent 92,593, an improvement to print revenue stamps. His sister, Agnes, married W.C. Smillie.

EARLE, S.E. *Pr & Lith.* He was employed by the Western BNCo before organizing the Northern BNCo in 1891.

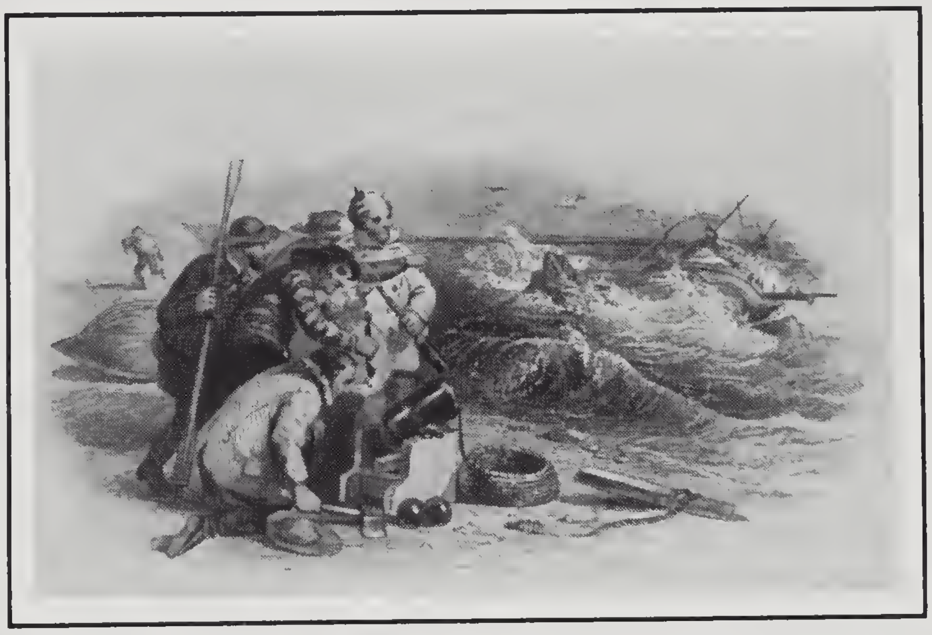
EARLE, William H. *Des & PEng.* b. 1832, d. 1875. He is the brother of John and Henry Earle. He "tested inks with oxalic acids to report on recently discovered counterfeits" in 1873 (Altmann, n.d., 89). He and his first wife, Annie Kilpatrick, had a daughter, Frances, who was a wood engraver for the *Ladies Home Journal*.

Miscellaneous

Drinking at the Brook (finished by J.D. Smillie), Canada $2, PS1930.

Girl Feeding Animals (finished by C. Burt), Canada $10, PS1088.

Lifesavers (five men eng. by W.H. Earle; etched by H. Beckwith): Eliot Bank, Boston, MA $500; Provincetown Bank, MA $20. U.S. 1869, $500 revenue stamp (des. by W.H. Earle).



EASTBURN, _____. He engraved for Rawdon, Wright & Hatch ca. 1830.

EDER, C. He was employed in the Transfer Division of American BNCo in 1911.

EDES, Benjamin. *Pr.* b. Charlestown, MA 14 Oct. 1732, d. Boston 11 Dec. 1803. When Samuel Kneeland died in 1769, Edes and John Gill, his partner (1755-1776), occupied the Kneeland premises in Boston. Edes & Gill were printers to the general court. At the outbreak of the Revolutionary War, Edes evaded British troops and escaped to Watertown, MA with his press and type. He printed Massachusetts notes dated 18 June 1776. With sons Benjamin and Peter, Benjamin Edes & Sons operated from 1779 to ca. 1782. He accumulated considerable wealth but "The rapid depreciation of paper money proved fatal to the property of Edes, as well as to that of many others. In the advanced period of his life...he was oppressed by poverty and sickness. His important services were too soon forgotten by his prosperous, independent countrymen. No publisher of a newspaper (the *Boston Gazette and Country Journal*) felt a greater interest in the establishment of the independence of the United States...and no newspaper was more instrumental in bringing forward this important event..." (Thomas 137).

EDMONDS, Charles. *Eng.* b. ca. 1823, d. ca. 1860. He was a member of the firm of Edmonds, Jones & Smillie.

EDMONDS, Francis W. *Art & Eng.* b. Hudson, NY 22 Nov. 1806, d. Bronxville, NY 7 February 1863. He attended a Quaker school where he was reprimanded for drawing. In 1823 Edmonds began his career as a banker; he became a clerk at the Tradesmen's Bank in New York City. In 1826 Edmonds became a pupil at the National Academy of Design; he lived at the Pearl St. residence of George W. Hatch. In 1830 he was appointed cashier at the Hudson River Bank; from 1832-1839 he held the same position at the Leather Manufacturers Bank in NYC. During the latter year Edmonds became cashier at the Mechanics Bank in NYC. From 1836-1838 he exhibited under the name of E.F. Williams. "...in those days there was a strong prejudice among businessmen in regard to their being engaged in any study like poetry, painting or music..." (Mann 97).

Edmonds was elected as an associate at the NAD in 1837. Two years later he felt bold enough to discard the pseudonym. On 25 Nov. 1840, following the death of his wife Edmonds went to Paris; from there he traveled and painted with Durand and Casilear. He returned to the U.S. in 1841 after he was elected as secretary of the committee to "investigate conditions in the Manhattan Bank" (Mann 98).

From 1848-1859 he had offices at 80 Nassau St. in NYC. In 1857, with Alfred Jones and W.C. Smillie, the short-lived firm of Edmonds, Jones & Smillie was formed. On 9 Oct. 1861 Edmonds was appointed secretary of American BNCo. His paintings exceed 100; five paintings are at the New York Historical Society. A portrait by A.B. Durand is in the National Academy of Design. He created the following bank note subjects.

Corporate Bond and United States Obsolete Bank Notes

Barn-Yard (eng. W.W. Rice): Continental Bank, Boston, MA $1; Peoples Bank, Bowling Green, KY $5.
Example, The: Bank of Chambersburg, PA $1 & $10; Bank of Lawrence County, PA $2; Central Bank of Frederick, MD $1.
Franklin, Child & Washington (eng. A. Jones), Bank of Danville, KY $2.
Grinder, The (eng. A. Jones), Bank of Hamburg, SC $5.
Hail, The (eng. A. Jones & J. Smillie), McKean County Bank, Smethport, PA $5.
Killing Hogs (eng. O.G. Hanks), Citizens Bank of (New Orleans) Louisiana, $100.
Mechanic, The (eng. J.I. Pease): Bank of Ashland, KY $1; Bank of Catasauqua, PA $1; McKean County Bank, Bank of Smethport, PA, $5.
Merchant and Newsboy (eng. O.G. Hanks), Eastern Bank of AL $1.
My Friend & Pitcher (eng. W.W. Rice), York County Bank, PA $2.
Sailor at Wheel (eng. T. House), Canada $5, PS591 & 592.
Sewing Girl (eng. O.G. Hanks): North Berwick Bank, ME $1; Marblehead Bank, MA $2; Bank of Ocean County, Tom's River, NJ $1; Setauket Bank, NY $2.
Vintage, The (eng. by A. Jones & H.S. Beckwith), Citizens Traction Co. cp. bd. (1887).
Well, The (eng. D.C. Hay): Batavia Bank, LaCrosse, WI $1; Mauch Chunk Bank, PA $2.

EDMONDS, William. *Eng.* From 1834-1838 he was a member of Casilear, Durand, & Co.; 1835-1837 with Casilear, Durand Burton & Edmonds; 1837-1838 with Burton, Gurley & Edmonds.

EDMONDSON, John S. *LtEng. ScrpEng.* b. Ottawa, Ontario, Canada 2 May 1900, d. 3 May 1959. He worked for both the British American BNCo and American BNCo. Edmondson joined American BNCo on 1 June 1926 and resigned on 24 Jan. 1939. He moved to the Bureau of Engraving and Printing on 1 Feb. 1939 as a script engraver; he became a letter engraver on 1 Sept. 1940; on 18 Apr. 1948 he was designated as a bank note letter engraver. He engraved about 100 postage stamps at the BEP.

EDMUND, Oldham, Sr. *Pant.* He was with the National BNCo as early as 1865 and as late as 1877. Edmund contributed to the 5¢, 10¢ & 25¢ newspaper stamps of 1865.

EDSON, Tracy Robinson. b. Fly Creek, Otsego County, NY 12 Dec. 1809, d. NYC 29 November 1881. He learned engraving with Rawdon, Clark & Co. in Albany. In 1827 he moved to the NYC office of that firm. On 1 Mar. 1832 he joined the firms of Rawdon, Wright & Hatch, and Rawdon, Clark & Co.; each company was to conduct business in their respective cities of NY and Albany. In 1835 he represented the Boston, Cincinnati, New Orleans and Philadelphia offices of RW&H. He returned to NYC when Rawdon, Wright, Hatch & Edson was formed in 1847. Ten years later he purchased the rights of the anti-photographic green ink process from George Matthews, who bought it from Dr. Sterry Hunt (Canadian Patent 715; U.S. Patent 17,688). Edson was the "brains" behind the organization of ABNCo; he personally secured U.S. Government contracts. He was president of the company 1860-1863; he retired from the board of directors in 1878.

EDWARDS, George Wharton, *Des.* b. Fair Haven, CT 1869, d. CT 1950. He studied art in Belgium and France. Among Edwards' numerous awards is the French, Knight Chevalier, Legion of Honneur, received in 1925 for "Eminent Services in Art." He was manager of the art department at *Collier's* from 1898-1903. *Henrik Hudson*, one of his murals, is at the U.S. Military Academy. After 1904 Edwards did design work for American BNCo. *Justice Supported by Labor & the Arts* (eng. S. Smith) on the Chicago District Electric Generator Co. reg. bd. (1934) is Edwards' design.

EDWIN, David. *Eng.* b. Bath, England Dec. 1776, d. Philadelphia 22 Feb. 1841. He studied with C. Josi in Holland before coming to Philadelphia in 1797. Edwin became employed as a book illustrator with T.B. Freeman and later with Edward Savage until 1801. Stauffer said that Edwin, who engraved numerous portraits after Gilbert Stuart, "became the most popular and prolific engraver of portraits in the United States." His method of producing uniformity in the ornamental part of bank notes was endorsed by John Draper, Robert Scot and others. He engraved medals of Horatio Gates and George Washington.

EGENS, Valentine P. This engraver was with Central BNCo and Hamilton BNCo in the 1930s.

EHNINGER, J.W. *Art, Des. & Ill.* b. NYC 22 July 1827, d. Saratoga, NY 22 Jan. 1889. He graduated from Columbia College in 1847; he then studied in Europe. When he returned in 1853, this artist exhibited, did illustration work and created art work for bank notes. In 1860 Ehninger became a member of the National Academy of Design.

Miscellaneous

Carting Cotton: Bank of Commerce, Phila., PA $5; Bank of Richmond, VA $20.
Excavators (eng. L. Delnoce): Sullivan Silver Mining Company stock certificate (1884); Union Pacific Rwy Co. bond (1882).

EHRENZELLER, Charles. *LtEng.* d. 8 March 1941. He was employed at American BNCo from 3 Feb. 1917 until 1 Aug. 1939.

EIDLITZ, Leopold. *Inv.* Bank note Patents 27,116, 14 Feb. 1860 and 36,821, 28 Oct. 1862 are registered in his name.

EISSLER, John. *PEng & PtEng.* b. Philadelphia, PA 5 Nov. 1873. He was educated in Philadelphia at Spring Garden Institute and the School of Industrial Art. From 1888-1900 he engraved for H. Elliot Co. in Philadelphia he then moved to the offices of American BNCo in that city. On 5 Sept. 1911 he joined the Bureau of Engraving and Printing; he resigned 12 Dec. 1924 but was reappointed 17 Feb. 1925. Before he retired from the Bureau of Engraving and Printing on 30 Nov. 1941, Eissler engraved about 75 postage stamps.

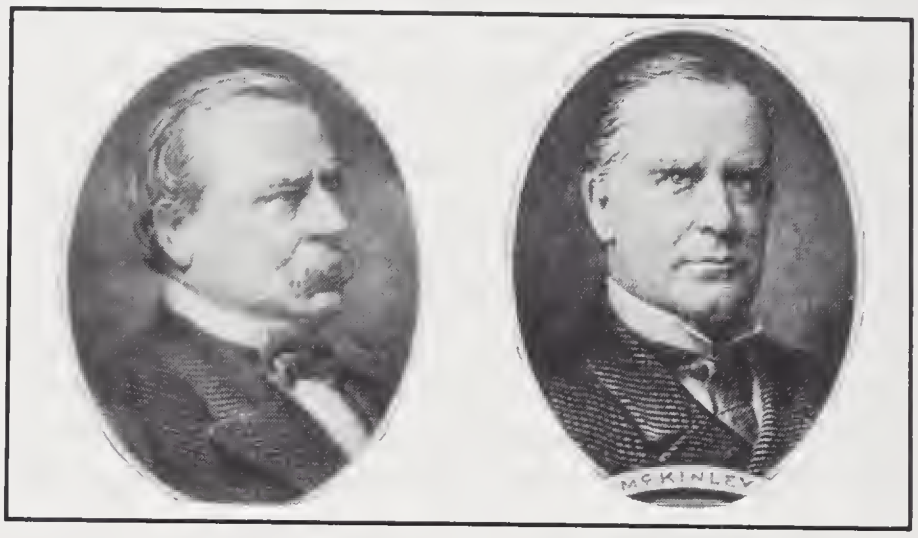
United States Federal Bank Notes

Cleveland, Grover, $1,000: FRN, H1430-1432; GC, H1433 & 1434.

Franklin, Benjamin, all small-size $100 notes.

Grant, Ulysses S., $50: FRN, H1044; FRBN, H1045 & 1046; all small-size notes.

McKinley, William, $500: FRN, H1372-1374; GC, H1375.



Stamps

Canal Zone
Gaillard Cut: 5¢-40¢ and $1 air mail, AP1.
Philippines
Carabao, 4¢, A54.
Philippines
Quezon, M.L., 2¢, A69
Rizal, José, 2¢, A53.
Yosemite Park, 18¢, A46.

Miscellaneous

Duane, William J., Stock transfer stamp.
Female profile, MPC: Series 661, 10¢, S-B82 and Series 521, $1 (back), S-B43.
Sherman, John, Internal revenue stamp for brandy.

ELLIS, G.B. *Eng.* He was a student of Francis Kearney in Philadelphia where he later operated his own business 1825-1837. His vignettes appear on notes of Underwood, Bald & Spencer, and Underwood, Bald, Spencer & Hufty.

ELLIS, Lyman F. *LtEng.* b. Hackensack, NJ 18 December 1870. He was employed at the Bureau of Engraving and Printing three different times: 16 July 1894 (resigned 31 March 1897); 12 May 1898 (resigned 31 August 1905); and 18 June 1923 (resigned 31 August 1924). From 14 May 1917 until 26 August 1919 Ellis engraved at American BNCo. He also engraved for the Western BNCo.

EMERSON, Frank H. *Des. & Mod.* He was with American BNCo as early as 1881 and late as 1911.

ENGLER, Arthur. *Des & Eng.* b. Jersey City, NJ 1885 and was living in 1957. He was a pupil of Francis Clarke and worked for the Republic BNCo in Pittsburgh, PA. His last work there were the bond coupons for Duquesne Light in Boston, MA.

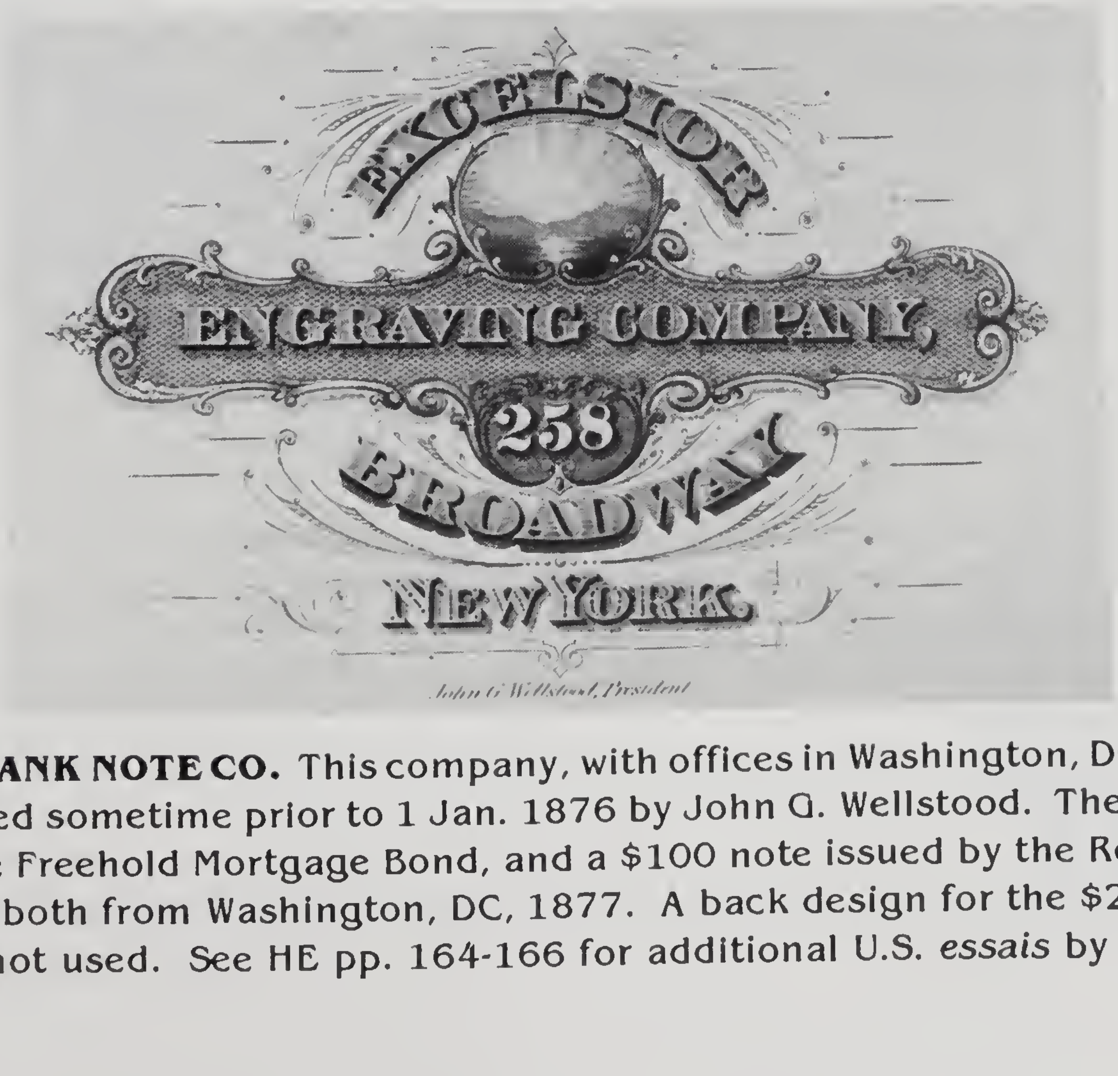
ERNIL, G.A. *LtEng.*

ETHEREDGE, _____. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1812 where he is credited with *Solomon's Song.*

EVANS, Major. This South Carolina printer was a partner in Evans & Cogswell.

EVANS & COGSWELL. This Columbia, South Carolina firm became the principal lithographer for the Confederate States of America. With 75 hand presses, they printed currency and bonds.

EVERETT, Richard. *LtEng & ScrpEng.* b. Bronx, NY 10 Feb. 1932. He attended the Bronx Vocational School. On 19 May 1954 Mr. Everett was employed at American BNCo as a carpenter; on 8 Jan. 1956 his apprenticeship as a script engraver began. In 1968 he joined the Security BNCo where he remained until 1971 when he moved to the Federated BNCo. Mr. Everett returned to ABNCo in 1973 where he remained until 1990 when he moved to the Bureau of Engraving and Printing.

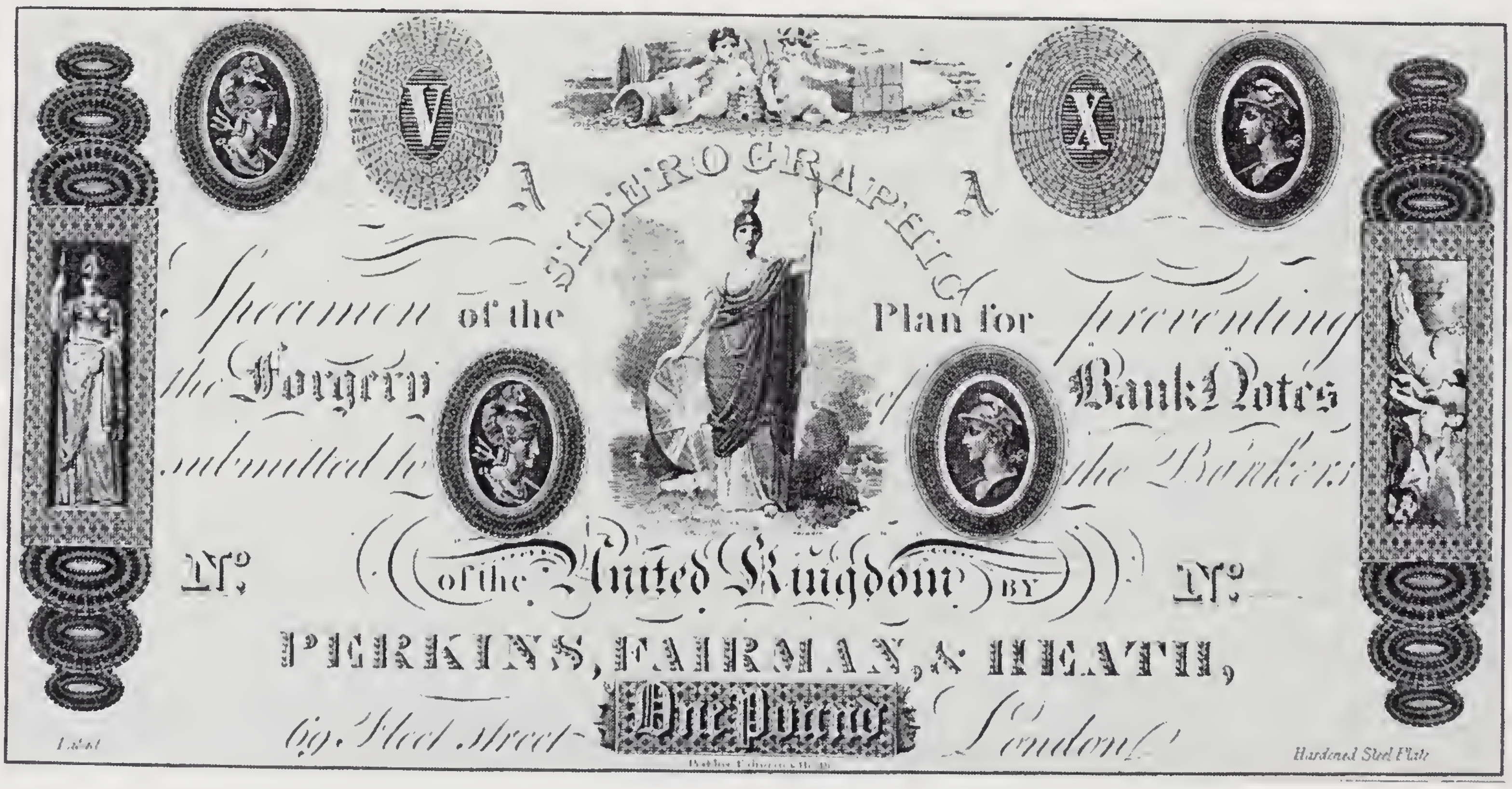


EXCELSIOR BANK NOTE CO. This company, with offices in Washington, DC and New York City, was formed sometime prior to 1 Jan. 1876 by John G. Wellstood. The company logo appears on the Freehold Mortgage Bond, and a $100 note issued by the Real Estate Loan and Trust Co., both from Washington, DC, 1877. A back design for the $2 (1899) SC was prepared but not used. See HE pp. 164-166 for additional U.S. *essais* by this firm.

F

FAIRMAN, David. *Eng.* b. Philadelphia 19 Aug. 1782, d. 1815. He was working in Newburyport, MA in 1810, but moved to NYC to join his brothers Gideon and Richard.

FAIRMAN, Gideon. *Des & PtEng.* b. Newton, Fairfield County, CT 26 June 1774, d. Philadelphia 18 Mar. 1827. Before he came to Philadelphia from Albany, NY ca. 1811, where he studied with George Hutton, he already had an excellent reputation as an engraver. As a member of Murray, Draper, Fairman & Co. (1811-1818) he engraved and designed. In 1819, with Jacob Perkins, Asa Spencer and Charles Toppan, he went to London, England to form Perkins, Fairman & Heath at 29 Austin Friars; in 1820 they moved to 68 Fleet St. This trio was drawn to London when a contest for the purpose of preventing counterfeiting was announced. During his time in England the company of Murray & Fairman continued until 1822, when he returned to New York City. He was with Cephas G. Childs for a while in 1824. Other engraving companies he was affiliated with include: Fairman, Draper & Co. (1822 & 1823), and Fairman, Draper, Underwood & Co. (1823-1827).



This engraving advertised "preventing the Forgery of Bank Notes" by Perkins, Fairman & Heath. *Britannia*, engraved in the U.S., was taken to England by G. Fairman.

FAIRMAN, Richard. *LtEng.* b. 1788, d. NYC 1821. He moved to New York to join his brothers Gideon and David; he remained there until his death.

FALTERMAYER, Otto. *Eng.* He applied for employment at American BNCo.

FANTER, J. *LtEng.* He was employed at the National BNCo until the latter part of the 19th century. Fanter engraved the 1861, 5¢ U.S. postage stamp.

FARMAN, F. *GLO.* He began his employment with American BNCo on 19 Oct. 1907.

FARMER, E.G. *Eng.* He was at American BNCo and with James Smillie engraved *Steers Head*, die no. 816. Farmer lived in North Attleboro, MA.

FARNHAM, William H. *Trans.* He was employed by the New York BNCo.

FARNUM, F. He was in the General Engraving Division of American Bank Note Co. in 1911.

FARRINGTON, D. *LEng.* He was at American BNCo. as early as 1878 and as late as 1911.

FARRINGTON, Elmer. *LtEng.* He was employed at American BNCo. as early as 1881 and as late as 1886.

FARRINGTON, G. *LtEng.* He was employed at American BNCo. as late as 1886.

FAUNCE, Clarence. *LtEng.* In 1927 Faunce joined American BNCo; he came from Philadelphia. On 21 May 1931, due to a lack of work, his employment ended.

FEDERATED BNCo. Thomas De La Rue did business in Philadelphia under this name.

FEELY, John. *Eng & D-S.* He was working in New York City from 1846 to 1860.

FELTON, Robert. *Eng & D-S.* In a trial in 1663 in Philadelphia that related to coining silver "in imitation of Spanish pieces with too great an alloy of copper..., Felton testified that 'he made Seals and the bills, viz-the Spanish Bills.'" He also spoke of the "Stamping of New Bills" and "Striking on the Stamp." He said he worked several weeks in "Cutting the Seals" (Opitz 274).

FELVER, Edward R. *PEng & PtEng.* b. 30 May 1931. "As a very small child, my parents had me convinced that Memorial Day and its attendant parades were in honor of my birthday!" In 1950 he began his career at American BNCo. After two years in the U.S. Army he returned to commence his apprenticeship under William F. Ford in 1954. There, in 1957, he engraved the *Building* on the State of Israel bond. Felver joined the Bureau of Engraving and Printing in 1960 as a plate finisher; he became a picture engraver in 1964. He engraved the official, small, presidential portrait of *Richard Nixon*. In 1970 he was promoted to Assistant Chief of Engraving; he was Chief of Engraving from 1974 to 1986. Currently, Felver is Manager of the Product Design and Engraving Div. at the BEP. He is also a Technical Advisor to the Citizens' Stamp Advisory Committee and serves on the Board of Directors of the Gravure Association of America.

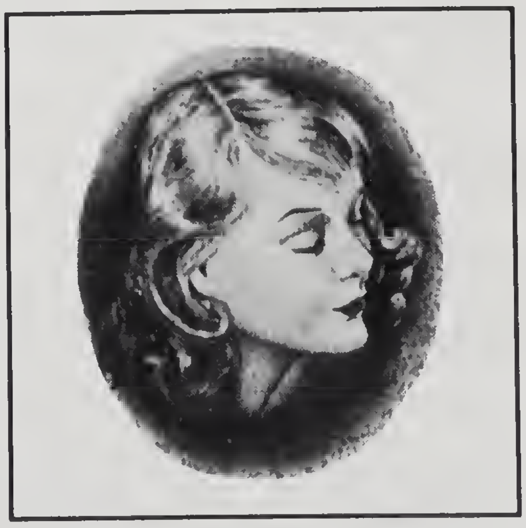
U.S. Military Payment Certificates

B52 Bomber, Series 681, $20, S-B96.

Female head, Series 692, $5, S-B102.

Submarine and Astronaut, Series 681, 5¢-50¢, S-B89-96.

The Bouquet, Series 661, $20 (back), S-B88.



FELVER, Hiram. *GLO.* He is the father of Russell Felver and was employed at American BNCo in 1911.

FELVER, Russell. *GLO.* He joined American BNCo on 2 Jan. 1917 and was the head of his department when he retired after 54 years of service. Russell Felver is the father of Edward R. Felver.

FELVER, William. *GLO.* He joined American BNCo on 19 July 1909. It is uncertain if Felver returned to ABNCo after service during World War I.

FENN, Harry. *Art, Ill & Eng.* b. Richmond, England 14 Sept. 1845, d. Montclair, NJ 21 April 1911. After training as a xylographer he came to the U.S. ca. 1857 to travel through the American West. About six years later Fenn went to Italy to study. When he returned to the U.S. he illustrated his first book, Whittier's *Snow Bound*, and later *Picturesque America*. In 1873 once again Fenn went abroad. After 1881, when he returned, he maintained a studio in New York City. This artist created *Propellers* on Hawaii $500, P5.

FENTON, Charles. *Des & Eng.* In 1864 he designed the Continental BNCo version of *Columbus in Sight of Land* for the $5 NBN, H274-286a and NGBN H343-348.

FENTON, Matthew Daniel. *PEng.* b. Washington, DC 6 Mar. 1906. He was educated in Washington including art studies at the Corcoran Gallery School of Art. Fenton began as a messenger at the Bureau of Engraving and Printing on 16 May 1918; he became an apprentice engraver on 19 July 1923 and an engraver on 16 Oct. 1928. He engraved over 60 postage stamps.

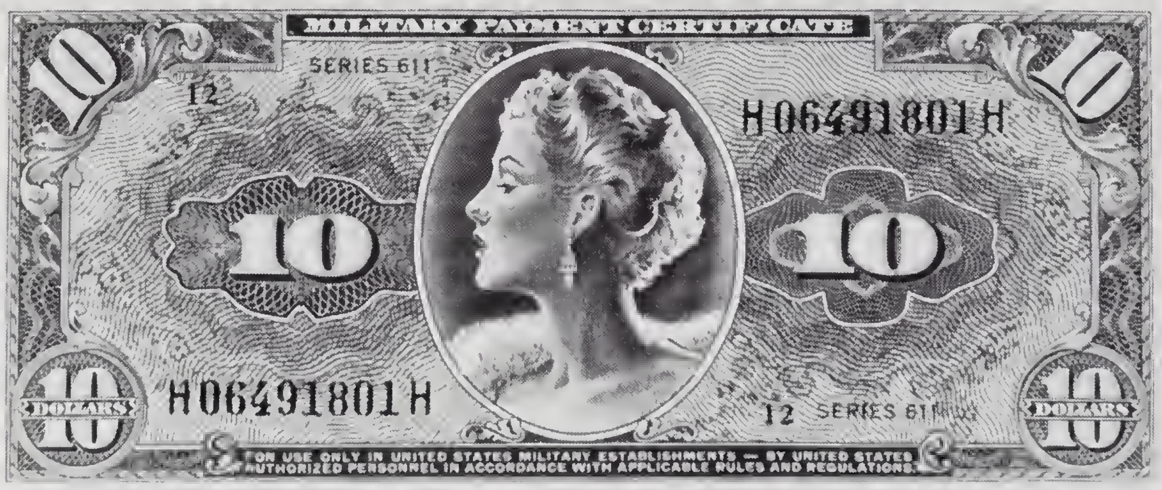
U.S. Military Payment Certificates

Female head, Series 611, $1, S-B60.
Female profile, Series 611, $10, S-B66.
Liberty;, Series 591, 50¢, S-B56.

Stock Transfer Stamps

Albert Gallatin.

Richard Rush.


MILITARY PAYMENT CERTIFICATE
SERIES 611
12
H06491801H
10
10
10
10
H06491801H
12 SERIES 611
DOLLARS
DOLLARS
FOR USE ONLY IN UNITED STATES MILITARY ESTABLISHMENTS — BY UNITED STATES AUTHORIZED PERSONNEL IN ACCORDANCE WITH APPLICABLE RULES AND REGULATIONS.

FENWICK, Edward. *LtEng.* He was at American BNCo in 1860 and with Continental BNCo in 1875.

FERGUSON, E.L. *ScrpEng.* b. IL, 1859, d. NYC 1915. He was employed at American BNCo in 1911.

FERO, Alex. *Des.* He retired from American BNCo in July 1984.

FICHTER, Herbert Francis. *PEng.* b. Jamaica, LI, NY 25 Dec. 1920. He was educated in New York City including art studies at the New York School of Fine and Applied Arts, the Pratt Institute, and later at the Corcoran Gallery School of Art in Washington, DC. He began his engraving apprenticeship at the Bureau of Engraving and Printing on 19 June 1941 and became an engraver on 13 Sept. 1949. From 1942 to 1945 he served in the U.S. Army. During his apprentice days at the BEP, Fichter did illustration work for the *Washington Daily News*; he also did sports cartooning. Fichter resigned from the BEP on

24 November 1954 to do free-lance art and engraving work. He spent some time with E.A. Wright Co. and in 1962 joined Jeffries BNCo where he remained for about 20 years. Fichter's work is in private and corporate collections. Exhibitions: Boston Museum of Art; Metropolitan Museum of Art; Corcoran Museum of Art; Smithsonian Institution one-man show. Mr. Fichter has received over 150 awards for his engraved work.

Corporate Stocks & Bonds

(Jeffries BNCo)

Crocker Bank.
Walt Disney.
Jantzen.
North American Rockwell.
Northrop.
Occidental Petroleum.
Ryan Aeronautical.
Union Oil.
Wells Fargo.

Traveler's Checks

(Jeffries BNCo)

American Express.
Bank of America.
VISA.

FILGATE, James C. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s and as late as 1947.

FISCHER, Albert. *Eng.* He was employed at Columbian BNCo.

FISCHER, Albert E. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s and as late as 1951.

FISHER, John. *Eng.* He renewed two copper plates for U.S. Loan Office certificates and made two letters in the device of $30 bills for which he received $20 (*JCC*, 26 June 1773).

FISHER, John. *Eng.* He was at the Homer Lee BNCo ca. 1898. This is probably the same engraver who, with W. Frauz, engraved the *Resurgens (1847-1865)*, Atlanta, GA seal for Republic BNCo.

FISK, Lyman. *Des. Mod.* b. NYC 25 Jan. 1855, d. NYC 20 June 1920. He went to American BNCo in 1871 and retired in 1910. Most of the designs he modeled were for stock certificates, bonds and foreign stamps.

FITZPATRICK, John. He worked as a prover for James Smillie.

FLANAGAN, John. *Sid.* He was employed at Security BNCo ca. 1930-1950.

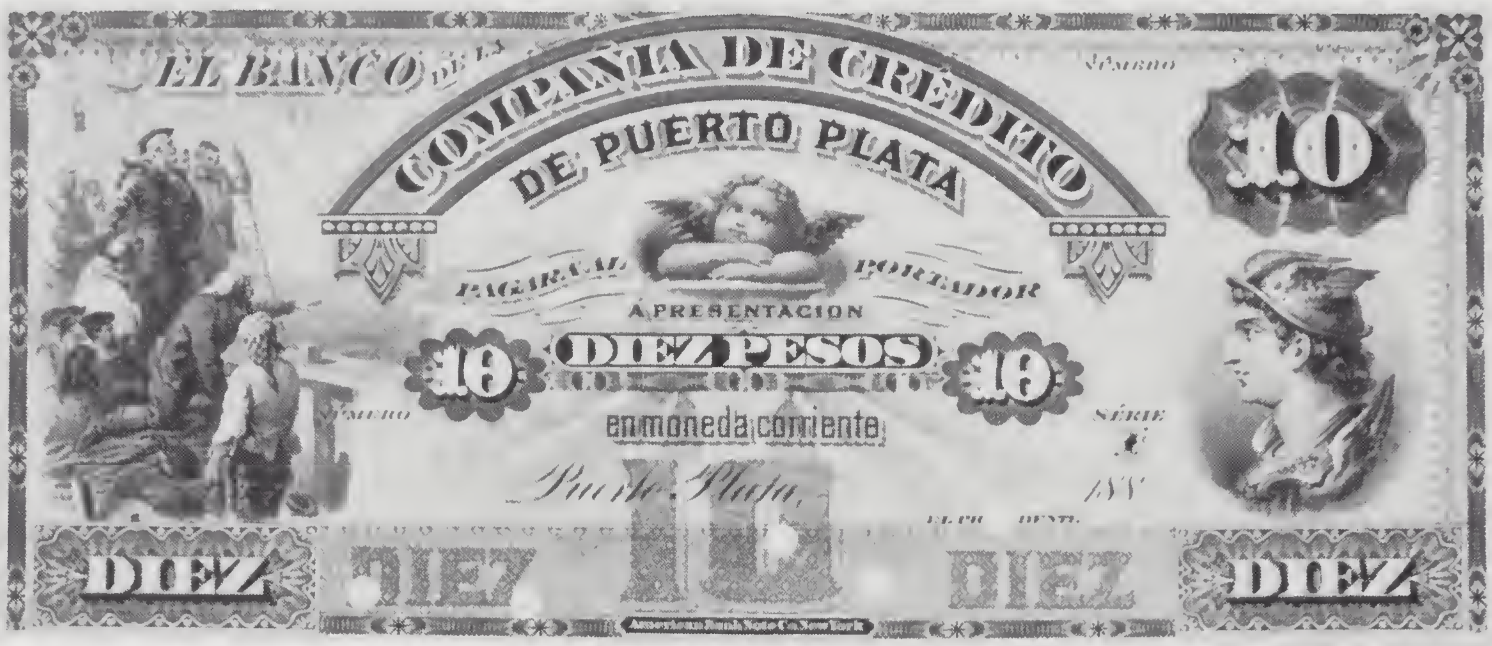
FLECKSTEIN, Charles. This printer was employed at American BNCo on 2 Aug. 1927.

FLEET, Thomas. *Pr.* b. England, d. July 1758. He arrived in Boston ca. 1712 and was printing books by 1713. He printed and published the *Evening Post* and *The Weekly Rehearsal*, two Boston newspapers. Fleet was the printer to the Massachusetts House of Representatives (1729-1731) and printed the back of Massachusetts notes dated 1779.

FLEISHELL, Will. *PEng.* He began his apprenticeship under Thomas Hipschen at the Bureau of Engraving and Printing ca. 1987.

FLEMING, Frank G. *Des. Eng.* He was employed at the Western BNCo during the early 20th century.

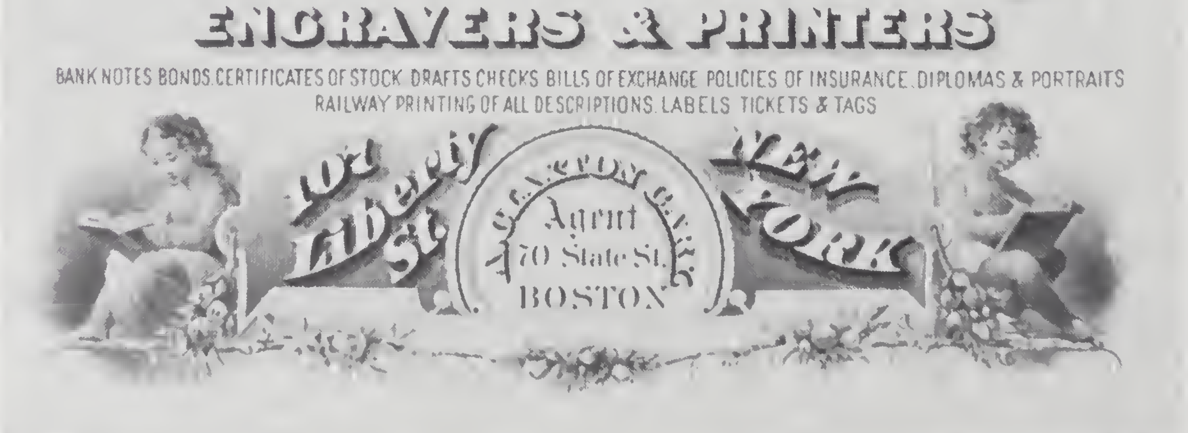
FOLL, Charles. *LtEng.* He joined American BNCo on 24 April 1918. Foll resigned on 20 Dec. 1919 and was re-employed on 5 Jan. 1920. On 13 Aug. 1920 he again resigned.



Dominican Republic 10 pesos, PS106: *First Land*, eng. Charles Burt; *Raphael's Angel*, eng. Frederick Girsch; and *Mercury*.

William Ford

Benjamin Franklin



FRANKLIN
Bank Note Company
ENGRAVERS & PRINTERS
BANK NOTES BONDS CERTIFICATES OF STOCK DRAFTS CHECKS BILLS OF EXCHANGE POLICIES OF INSURANCE DIPLOMAS & PORTRAITS
RAILWAY PRINTING OF ALL DESCRIPTIONS. LABELS TICKETS & TAGS
[illegible] Liberty St
NEW YORK
[illegible]
Agent
70 State St.
BOSTON

Advertising card for the Franklin Bank Note Company.

FOLSOM, Charles. *LtEng.* His work was probably limited to engraved business cards for Durand & Co. in New York City from 1837 to 1840.

FONTAINE, Phillip. *LtEng.* d. 1932. He engraved for the Columbian BNCo, the Hamilton BNCo and the E.A. Wright BNCo. Fontaine joined American BNCo on 28 April and retired in 1930.

FORBES LITHOGRAPHIC MANUFACTURING CO. In the early 1940s this Chelsea, MA company was contracted by the Bureau of Engraving and Printing to print Allied Military Currency for Austria, France, Germany and Italy. An "F", hidden within the designs, is the identifying mark of this company.

FORD, John. *Trans.* He was engaged by the E.A. Wright BNCo before joining American BNCo on 27 Jan. 1915.

FORD, Joseph R. *Eng.* He joined American BNCo on 4 Dec. 1894 and retired on 1 February 1941. For a while Joseph Ford was genially referred to by his colleagues as "the honest counterfeiter."

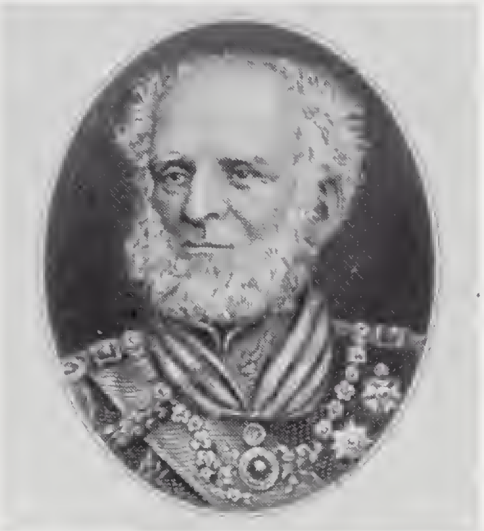
> He devoted his long career to one of the most bizarre research operations ever known — testing the security of American Bank Note work by attempting to counterfeit it. His secluded quarters, which he always kept under lock and key, were in the tower of the New York plant. He had able assistance and was provided with all the chemical and photographic equipment he desired. His failures were cause for satisfaction; his successes or near successes led to suitable changes in design or production practices. As a result of his life work, American Bank Note Company has been able to attain the highest degree of security and, moreover, to be confident it has done so. Any document beyond the reach of a man of integrity and genius operating with ample facilities in the light of day should be safe from twisted minds forced to work under cover (Griffiths 69).

FORD, William F. *PEng.* b. ca. 1895, d. 3 Nov. 1962. He came to American BNCo on 27 Apr. 1912 and became Superintendent of the Picture Engraving Dept. in 1940; he retired in June 1960. He is the son of Joseph R. Ford. Robert Savage died while he was engraving a large portrait of *Chiang-kai-shek*; William Ford completed the portrait.

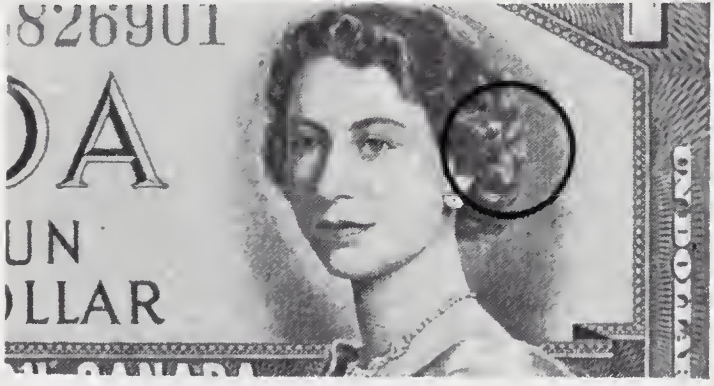
Belgian Congo: *Elephants*, 500 francs (back), P18.

Foreign Bank Notes

Belgian Congo
Elephants, 500 francs (back), P18.
Female Head (finished by E. Gunn), 500 francs, P18.
Brazil
Allegory, 100 mil reis, PS541.

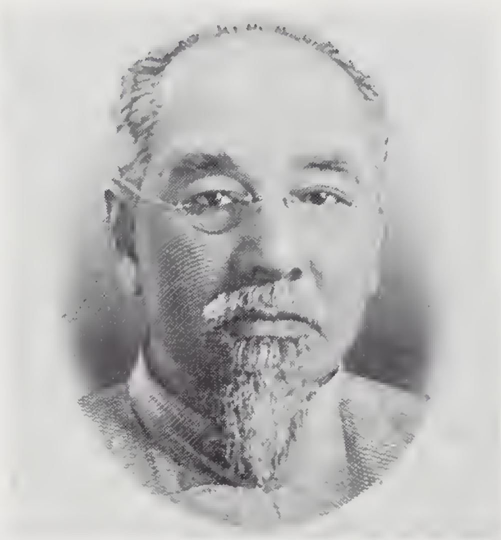


de Tamandare, M. 1 cruz., P132 & P150.
do Ipiranga, Grito, (use uncertain).
dos Portos, Abertura, (background by H. Osborn) 500 cruzeiros (back), P140, P148 & P172.
Isabel, 50 cruz., P152.
Ships (etched by H. Osborn), 500 mil reis (back), P141.
Vargas, G., 10 cruz., P135, P159 & P167.
Canada
Austin, A.W., $5-$100, PS1028-1032.
Carlisle, C.H., $5, PS1033.



Elizabeth II (devil's head) $1-$1,000, P66-73. Both the original portrait, as illustrated, and the alteration of this controversial portrait are by Canadian engraver George Gundersen. While at ABNCo William Ford engraved the same portrait; however, it was rejected in favor of the one by George Gundersen.
Gardner, B.C., $5 (left), PS564.
George V, $1-$50, P58-63.
Glouster, Duke of (based on photo by Vandyk), $100, P52 & P53.
Jaffray, H.J., $5 & $10, PS1145G & H.
MacDonald, Sir John A., $500, P54 & $100, P64.
Mary, Queen, $25, P48 & P49.
Phipps, A.E., $5-$20, PS1145B-1145D.
Rae, Robert, $5, PS1035 & $10, PS1036.
Spinney, G.W. (eng. with E. Gunn), $10, PS562 & $20, PS563.

China
Arms of American Oriental Banking Corp., $5 & 10, PS102 & PS103.
Chiang-Kai-shek (eng. with W. Jung), 1 yuan, P387, 10 yuan, P390 & 50 yuan, P393.



Lin Sen, 5 yuan, P388.
Colombia
Colombia Arms (finished by E. Gunn), 1-10 pesos (backs), P366-368.
de Sucre, A.J., (eng. with M.W. Baldwin), 50 pesos, P365.
Costa Rica
Calvo, J.B., 2 colones, P203.
Carrillo, B., 5 col., P209 & P220.
Peña, J., 1,000 col., P226.
Cuba
Aguilera, V., 100 pesos, P82.
Betancourt, S.C. (eng. with W. Adolph), 500 pesos, P83.
Duarte, J.P., 1 peso, P18. P26 & P39.
Gomez, M., 5 pesos, P70.
Marti, José, 1 peso, P77.
Mella, R., 10 pesos, P20.
Trujillo, Gen. R., 20 pesos, P30.

Dominican Republic
Coffee Industry (art by A. Foringer, eng. with H. Osborn), 100 pesos, P23, P32 & P44.
Indian Woman (profile) (eng. with H. Osborn), 1 peso-1,000 pesos, P18-25 (backs).
Ecuador
de Sucre, A.J., 5 pesos, P100.
Mercury (eng. W. Adolph), 500 sucres, P96.
El Salvador
Farmer Plowing (eng. with W. Jung), 1 colon, P71 & P83.
French Indochina
Female in Oriental hat, 50 piastres, P77.
French Indochina
Sampan on River, 1 piastre, P76.
Greece
Athena (medallion), 5 drachmai, P73.
Minerva No. 2, 5,000 drachmai, P103.
Guatemala
de Nahuala, Indo, 100 quetzal, P96.

Foreign Bank Notes

(continued)

Haiti

Stenio, Vincent, 1 & 2 gourdes, P167 & P168.

Honduras

Agurcia, I., 10 lempiras, P43A.

Iran

Pahlevi, Mirza Reza, 5 & 10 rials, P18 & P19.

Warrior Killing a Monster, 1,000 rials, P30.

Mexico

Hidalgo y Costilla, M., 100 pesos, P719.

Morelos, J. Maria, 500 pesos, P720.

Romero, M., 10,000 pesos, P722.

Netherlands

Wilhemina, Queen, 1-100 gulden, P64-69.

New Zealand

Tawhiao, King (Maori chief), 10 shillings-£100 PS231-240.

Nicaragua

Dario, Ruben, 500 cordobas, P98.

Indian Girl (L. Somoza), 1 cordoba, P76.

Poland

Silesia Girl, 20 zlotych, P87.

South Vietnam

Ships in Harbor, 200 dong, P9.

Spain

de Cordoba, G.F., 100 pesos, P83.

Lopez, Vincente (finished by S. Smith), 25 pesos, P81.

Turkey

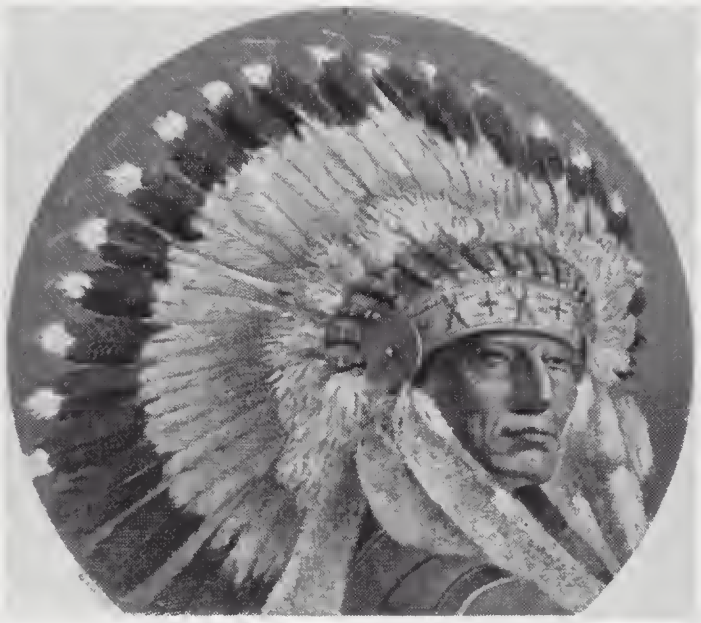
Inonu, Ismet, 50 lira, P82 & P83, 10 lira, P87.

Corporate Bonds

Allegorical Enlightenment (art by A. Foringer): Continental Oil Co. (1939); Oklahoma Natural Gas.
Antique Train, Rennselaer & Saratoga RR Co. (1921).
American Telephone & Telegraph Trade Mark, AT&T (1923).
Atlas (on coupon), Atlas Power Co. (1921).
Commercial Progress No. 2 (art by A. Foringer), Champion Paper & Fibre Co. (1945).
Czechoslovak Arms: State Loan (1922); State (1924); Republic (1925).
Denmark Arms, Kingdom of Denmark (1921).
Electrical Power (female with cables) (art by Humphrey), Indiana Associated Telephone Corp. (1940).
Electricity, Alabama Power Co. (1921).
Electricity (also the smaller version on coupons), Gulf States Utilities (1926).
Electricity: American Electric Power Corp.; PA Power & Light Co.; NY Power & Light Corp. (1926).
Female Allegory, Framerican Industrial Bond Development Corp. (1921).
International Telephone & Telegraph Trade Mark, IT&T.
Mount Fujiyama, Imperial Japanese Government cp. bd. (1924 & 1959).
Netherlands Arms, Kingdom of the Netherlands cp. bd. (1924).
Porters at Work: Southern Pacific Co. (1924); TN Central Rwy (1926).
Railroad Station, Southern Pacific cp. & reg. bds. (1924).
Science, Labor & Manufacturing (see stock certificates): Brooklyn Union Gas Co. (1930); General Cable Corp. (1928), (both cp. bds.).
Simmons Co. Seal, Simmons Co. (1930).
Steel Plant, U.S. Steel Workers Corp (1926).
Sunshine Special, MO Pacific RR Co. (1927)
Sweden Arms, Kingdom of Sweden (1925).
Tower & Globe, RCA (1935).
Transportation (art by A. Foringer), Pennsylvania Co. cp. & reg. bds. (1935).
Transportation No. 9 (Mercury) (art by A. Foringer), Kansas City Southern Rwy Co.

Stock Certificates

Allegorical Enlightenment (art by A. Foringer), Oneok Inc. (1980).
Daughter of the Shiek (art by Conrad Kiesel), Coty International Corp. (1939).
Dredge (ship), Great Lakes Dredge & Dock Co. (1931).
Electricity, United Light & Power Co. (1924).
Electricity, Columbus Electric & Power Co. (1926).
Human Figures, Drexel Enterprises, Inc. (1964).



Indian, Atchison, Topeka and Santa Fe Rwy Co.

Indian, AMEREX Inc.
Indian, Shawmut National Bank of Boston.
Industrial Science (female on winged-wheel), Beaunit Corp.
Industry (man, woman & Mercury), Thiokol Chemical Corp.
Mechanical Power (art by A. Foringer), Iowa Power & Light Co. (1959); Van Norman Co. (1943).
Mercury, Bangor & Aroostook Corp.
Mercury (eng. with E. Gunn): Crosley Radio Corp. (1929); Madison Square Garden (1927); United Airlines (1936).
Music and Drama (art by A. Foringer), RKO Theaters.
Neptune No. 2 (art by A. Foringer), Aqua-Chem, Inc. (1967).
New York City Arms, National City Bank (1924).
Pioneer, Daniel Boone Woolen Mills (1924).
Roman Soldier (background by J. Wallace), logo for American Express Co.
Science, Labor & Manufacturing (eng. with G.F.C. Smillie, L. Delnoce, Jr. & W. Adolph), Monsanto Chemical (1959).
Steel Industry (art by W. Foringer): Newport Steel Co. (1951); Lukens Steel Co. (1956).
Telephone, Ohio Bell Telephone Co. (1921).
Tower & Globe, RCA (1924).
Transportation No. 9 (Mercury) (see bonds).

Miscellaneous

American Bank Note Co. Building (77 mm high) on company letterhead, co-engraved with K. Guy.
Electronics No. 2 (Carlson artist), Arrow Electronics, Inc. depositary receipt.
Girl's Head (possibly the daughter of A.S. Major), U.S. Postal Panel (1978).
Harding, Warren G. (eng. with M.W. Baldwin & E. Gunn), Republican National Convention ticket (1924).
Roman Soldier (background by J. Wallace), American Express Co. travelers checks.
Royal Antelope, **Liberia** 1¢ stamp, A110.
Story of American Bank Note Co.: _A.P. Giannini_; _Giuseppe Garibaldi_; _José Rizal_.

FOREST, J. He was in the General Engraving Division of ABNCo in 1911.

FORINGER, Alonzo Earl. *Art & Des.* b. Kaylor, Armstrong County, PA 1898, d. Saddle River, NJ 8 Dec. 1948. He studied with Stevenson in Pittsburgh, Blashfield and Mowbray. Before World War I he was a muralist. This legendary artist gained international recognition with his WW I poster, *The Greatest Mother in the World*. According to the artist, something of his own mother, as he remembered her, was put into this poster. Among his last murals was *Criminal and Civil Law* for the Kenosha County Court House in Horise, WI. Others were done in Yonkers, NY, Philadelphia, PA (Church of the Savior), Mercer, PA (County Court House), and Salt Lake City, UT (House of Rep. at the State Capitol). Foringer was the premiere artist for American BNCo. (See W. Ford, S. Smith, R. Savage & E. Gunn.)

Foreign Bank Notes

Canada
Agriculture, $1 (back), P38 & P39.
Female and Globe (eng. E. Gunn), $1-$20, PS947-951.
Industry, Vulcan, Herculean Men (with symbols of science and industry), $50, PS968.
Juno and Bull, Ceres and Goats, $10, PS966 & PS971.
Mercury, Agriculture & Invention, $5, PS965 & PS970.
Mercury, Goddesses (3), Pioneer and Explorer, $100, PS969.
Neptune, Sea Nymphs, Mercury and Female, $20, PS967 & PS972.
Dominican Republic
Coffee Industry (eng. H. Osborn & W. Ford), 100 pesos, P23 & P32.
Ecuador
Telecommunications, 1,000 sucres, P97.
German Federal Republic
Female Allegory (eng. R. Savage & L. Kauffmann, etched by H. Osborn), 50 marks, P7.
Martinique
Agriculture (eng. R. Savage), 100 francs, P19.
Seated Figures (eng. E. Gunn), 1,000 francs, P21.
Nicaragua
Fruit (woman kneeling; eng. E. Gunn), 100 cordobas P56 & P82.

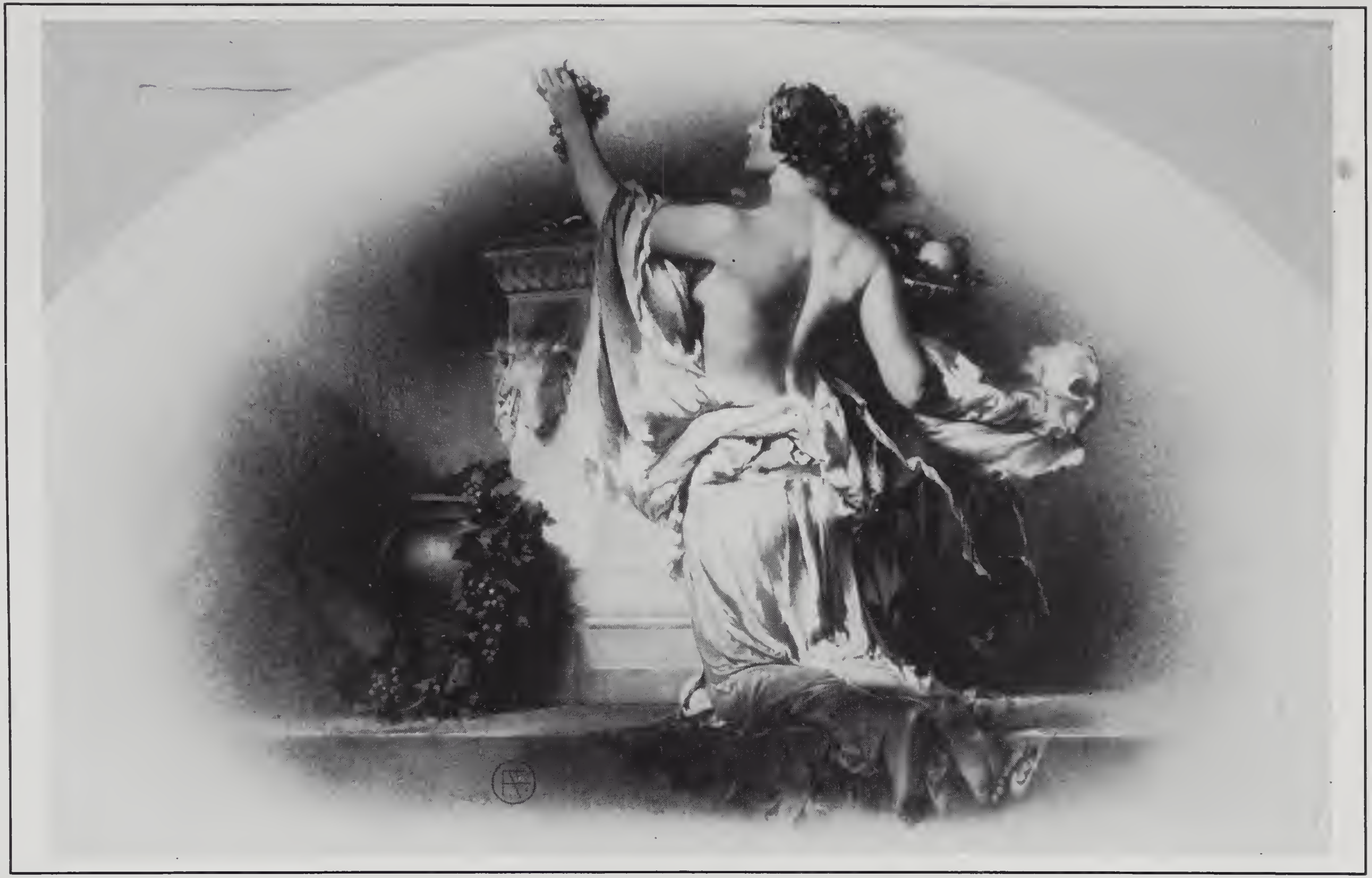
Corporate Bonds

Agriculture (eng. W. Adolph): Prov. of Silesia (Rep. of Poland, 1929); Kingdom of Romania (1929).
Allegorical Enlightenment (woman with torch and globe; eng. W. Ford): Continental Oil Co. (1939); Oklahoma National Gas (1939).
Commercial Progress No. 2 (eng. W. Ford), Champion Paper & Fibre Co. (1945).
Electric Generation: Edison Electric Illuminating Co., Boston (1935); PA Water & Power Co. (1940).
Electricity: Adirondack Power & Light Co.; NJ Power & Light Co.; PA Power & Light Co.
Female and Globe (eng. E. Gunn), IT&T (1925).
Industry, Kingdom of Italy, External Loan Bond, 1925.
Mercury (see E. Gunn).
Navigation (eng. M.W. Baldwin), Atlantic Fruit & Sugar Co. (1924).
Science, Industry and Agriculture (eng. R. Savage): Allegheny Corp. (1929); Florida Power & Light.
Sower, The (see W. Adolph).
Transportation (see W. Ford).
Transportation No. 9 (Mercury) (eng. W. Ford), Kansas City Southern Rwy Co.

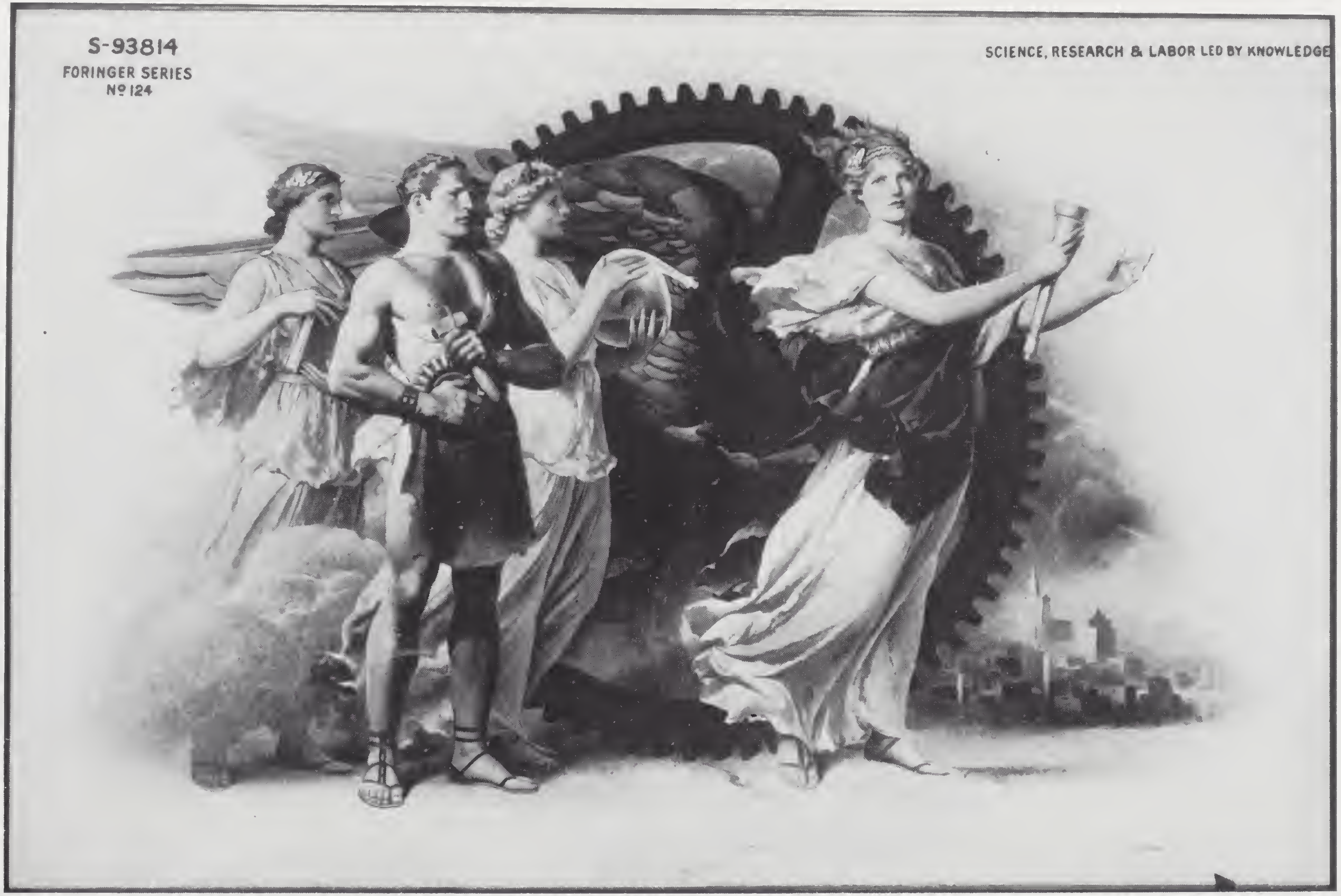
Stock Certificates

Abundance (eng. R. Savage), Standard Milling Co. (1946).
Agriculture, Borman's Inc.
Agriculture (man & woman; eng. E. Gunn), Glenmore Distilleries (1946 & 1979).
Agriculture (eng. E. Gunn): Continental Baking Co. (1939); Kellog Co.; Stop & Shop (1960); United Bisquit Co. (1925).
Agriculture (same as Martinique, P19; eng. R. Savage), Florida Power & Light (1949).
Agriculture No. 4 (eng. S. Smith), Albertsons's Inc.
Allegorical Enlightenment (see bonds).
Aviation No. 8 (see R. Savage).
Aviation No. 9 (female and Mercury), United States Lines (1946).
Chemistry and Two Male Figures, Allied Chemical Corp.
Female and Globe (eng. E. Gunn), Amerada Corp. (1926).
Female Reclining with Globe (eng. G. Lambert), Bloomingdale Bros. (1926).
Female with Caduceus and Globe (eng. J. Hay), U.S. Shoe Corp. (1956).
Fruit (woman kneeling; eng. E. Gunn), United Artists Theatre Circuit Inc.

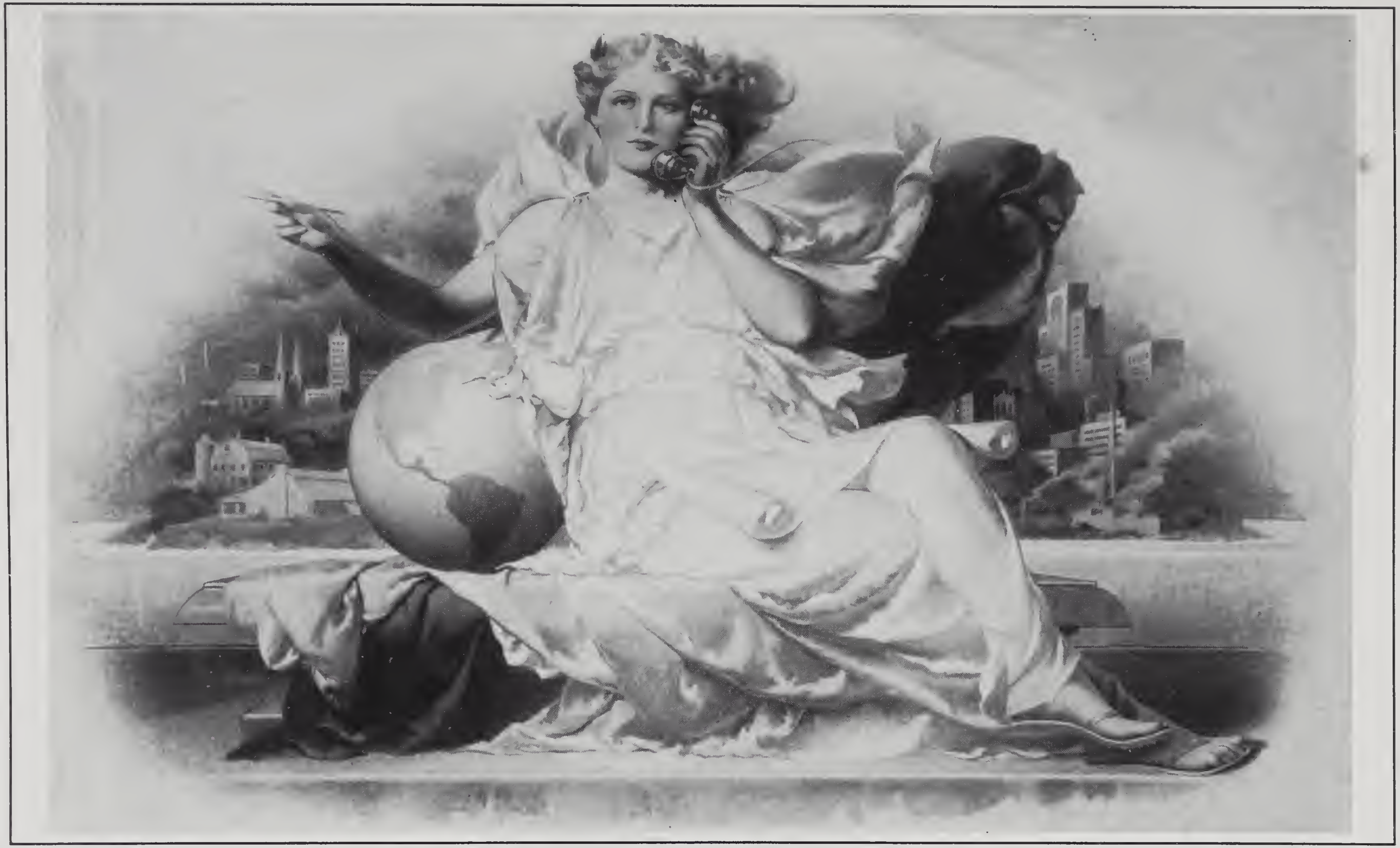
Science, *Art and Industry*, see stock certificates.



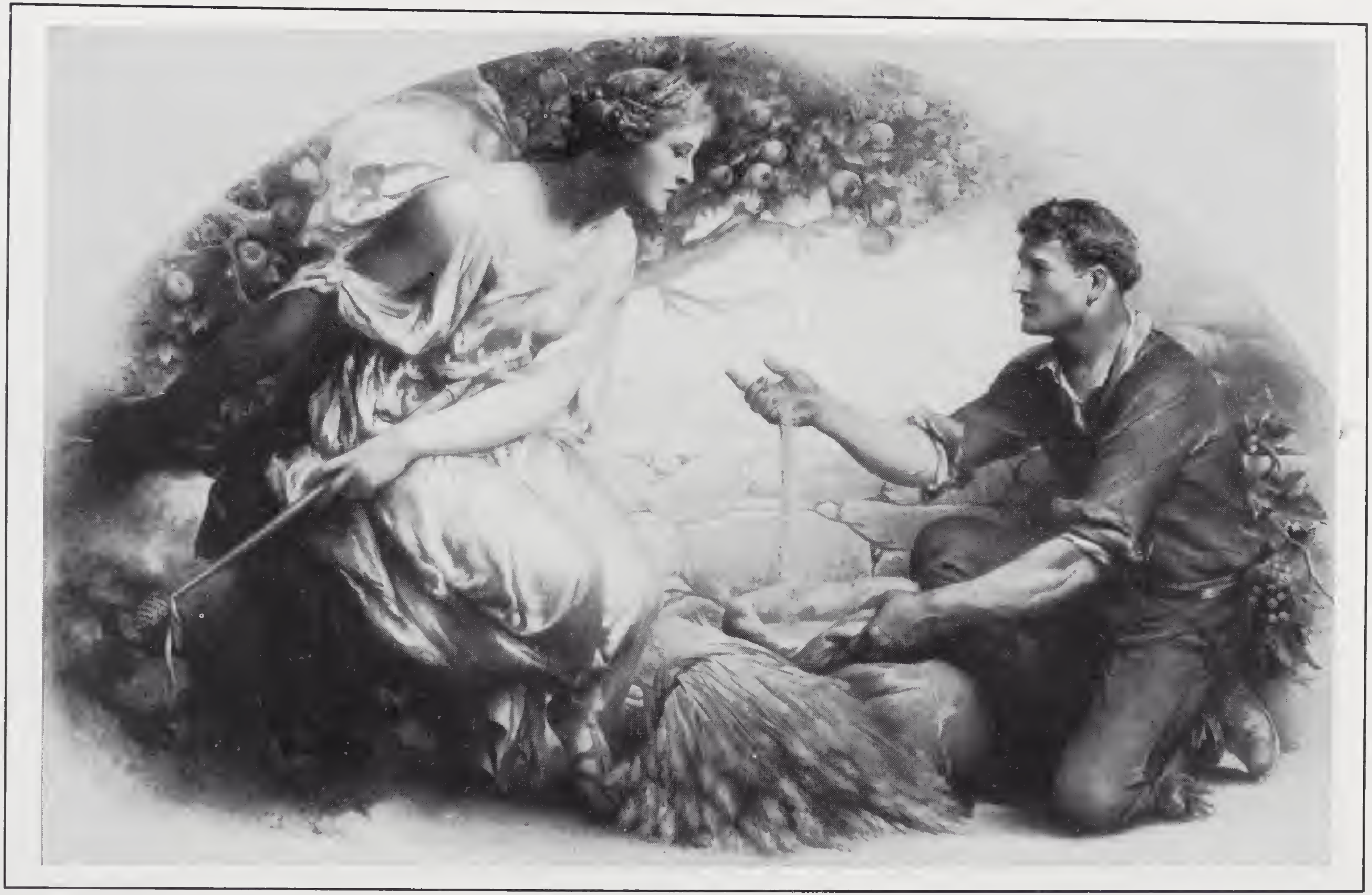
Fruit, eng. E. Gunn, Nicaragua 100 cordobas, P56 & P82.


S-93814
FORINGER SERIES
Nº 124
SCIENCE, RESEARCH & LABOR LED BY KNOWLEDGE

Science, Research & Labor led by Knowledge, see stock certificates.



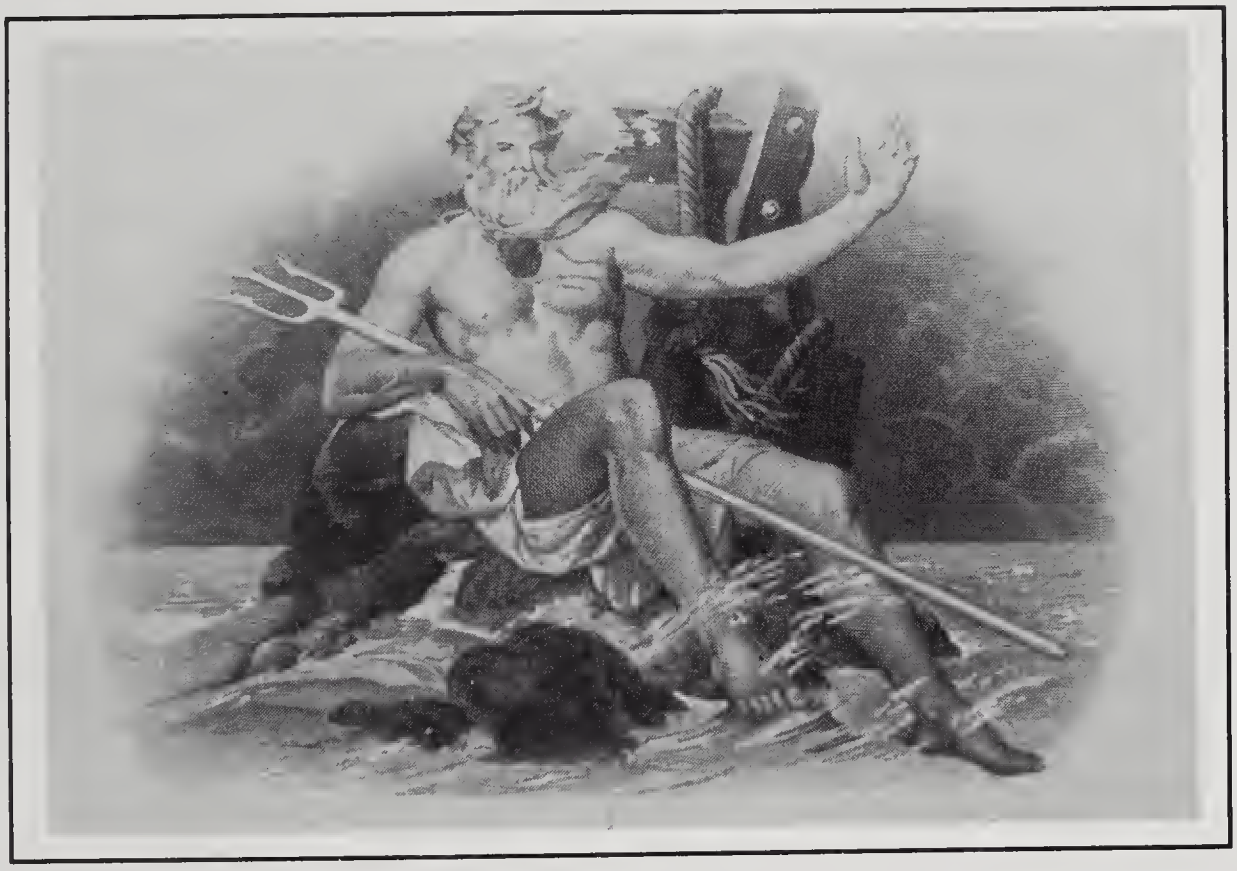
Telecommunications, Ecuador 1,000 sucres, P97.



Agriculture, eng. E. Gunn, see stock certificates.

Stock Certificates
(continued)

Harvest, The (see R. Savage).
Harvest No. 4 (see R. Savage).
Harvest No. 5 (man with pumpkin), M&M Woodworking Co.
Justice & Industry (see R. Savage).
Labor (Allegorical Male Head No. 2) (eng. E. Loizeaux): Aeroquip Corp. (1955); Valley Mould & Iron Co. (1965).
Male Allegory (see G.F.C. Smillie).
Manufacturing (seated male; see G.F.C. Smillie).
Mechanical Power (see W. Ford).
Mercury, Bangor & Aroostock Corp.
Mercury (eng. E. Gunn).
Mercury (see R. Savage).
Music and Drama (eng. W. Ford), RKO Theaters.



Neptune No. 2 (eng. W. Ford), Aqua-Chem, Inc.

Protection, Holmes Electric Protective Co.
Roman Soldier, Hughes & Hatcher, Inc.
Science (eng. R. Savage): California Natural Gas; Profit Technology Inc.; Southern Natural Gas.
Science and Agriculture (eng. R. Savage): Fern Laboratories (1947); Northwestern Yeast Co. (1945).
Science and Commerce No. 2 (eng. R. Savage): Canal Randolph Corp.; Ritter Co.
Science and Industry (women and dynamo). (eng. R. Savage, later reworked by C. Chalmers).
Science, Art & Industry (female seated, men at sides), The General Tire & Rubber Co., Inc.
Science, Industry and Commerce, The Scranton Corp.
Science, Research & Labor led by Knowledge, Publicker Industries, Inc.
Scientific Agriculture (see R. Savage).
Scientific Progress, Beaunit Corp.
Steel: Jones & Laughlin Steel Co. (1962); Vulcan Detinning Co. (1947).
Steel Industry (see W. Ford).
Textile and Mercury, City Stores Co.
Theory & Practice (see W. Adolph).
Transportation, Illinois Terminal Rail Road Co.
Transportation No. 9 (Mercury) (eng. W. Ford), United Transit Co. (1945).

Miscellaneous

Agriculture (eng. W. Adolph), 1929 cp. bds: Republic of Poland (Silesia); and Kingdom of Romania.
Liberty, Republic NB of Dallas, TX Travelers Check (1938).
Tropical Allegorical (child), U.S. Postal Panel (1982).

FORREST, Ian B. *Art & Eng.* b. Aberdeenshire, Scotland ca. 1814, d. Hudson County, NJ 1870. He served his apprenticeship under Thomas Fry in London. Forrest came to Philadelphia in 1837 at the request of James Longacre to engrave for the *National Portrait Gallery*. Some of his small, engraved work might have been used on bank notes.

FOSTER, C. *Des & Eng.* He was working in Cincinnati ca. 1841. This could be the Foster who was at American BNCo in 1881.

FOSTER, John. b. Dorchester, MA 1648, d. Dorchester, MA 19 Sept. 1681. Foster, the earliest engraver in America also established the first printing press in Boston in 1670. Foster engraved the first known and second version of the seal, or, arms of the Massachusetts Colony. James Blake, in his *Annals of Dorchester*, Boston, 1846, refers to Foster as a "School-master."

FOWLE, Daniel. *Pr.* b. Charlestown, MA. He served his apprenticeship under Samuel Kneeland and was printing on his own by 1740. The Massachusetts House of Representatives had Fowle arrested for selling an unauthorized pamphlet; it is uncertain if he was imprisoned. After his release from Fowle moved to Portsmouth, NH and as the first printer in New Hampshire published *The New Hampshire Gazette*. He printed New Hampshire notes dated 3 Nov. 1775, 26 Jan. and 3 July 1776.

FOWLE, Robert. *Pr.* During his apprenticeship with his uncle, Daniel Fowle, he printed New Hampshire currency dated 3 Nov. 1775 and probably counterfeited the same notes. He, a Royalist, fled to British lines in New York and was later given a pension by the British. After the American Revolution Fowle returned to New Hampshire.

FRAME, _____. *Trans.* (see Amendt.)

FRANKE, William. *Trans & Sid.* d. 3 Jan. 1937. After working at the Bureau of Engraving and Printing Franke joined American BNCo on 14 March 1912 and remained there until 8 Aug. 1935.

FRANKLIN, Anne. *Pr.* d. 19 Apr. 1763. She and her daughter succeeded her husband James in printing blank certificates for the public offices of Rhode Island ca. 1745. She was the sister-in-law of Benjamin Franklin.

FRANKLIN BANK NOTE COMPANY. The original company, the Franklin Engraving & Printing Co., was formed in 1877 and was located at 87 Liberty St., NYC. Charles F. Steel was president, James Bannister was chief engraver and James Milligan, who invented the steam plate printing presses (Patent No. 180,490) used at the Bureau of Engraving and Printing 1877-1889, was chief printer. In 1880 the name was changed to the Franklin BNCo. Walter Shirlaw joined the company at 107 Liberty St. In 1882 the company moved to 154 Nassau St. In 1897 Franklin BNCo merged with the Homer Lee BNCo to form the Franklin-Lee BNCo; consolidation with ABNCo took place in 1905.

FRANKLIN, Benjamin. *Inv & Pr.* b. Boston, MA 17 Jan. 1706, d. Philadelphia 17 April 1790. He was apprenticed as a printer to his older brother. At age 17 Franklin sold some books for passage to New York City. There, William Bradford, the first printer in New York, told the young Franklin to go to Philadelphia where Samuel Keimer became his first employer. Franklin went to London to select printing machinery for Sir William Keith; promised credit was not there. About 18 months later he returned to Philadelphia. In 1730 he opened a stationery store and formed a partnership with Thomas Whitemarsh as printer. There were other partnerships; the most successful was with David Hall (21 Jan. 1747 to 21 Jan. 1766). During this same period (1754-1758) he was also a partner of Anthony Armbruster who published *Die Zeitung*, a German-language newspaper in

Philadelphia. Franklin was the publisher of *Poor Richard's Almanac* in Dec. 1732. He became U.S. Postmaster in Oct. 1737. This American genius printed colonial paper money for Delaware (1734 & 1739); New Jersey (1728, 1737 & 1746) and Pennsylvania (1729, 1739, 1744, 1746 & 1789). His nature prints from tree and plant leaves were sophisticated counterfeiting deterrents. As each snow flake is unique, no two leaves are exactly alike. The design of the "Fugio (time flies) cents," the first authorized U.S. coin, is attributed to Franklin. The two additional mottoes, "Mind Your Business" and "We are One" are also considered to be Franklin's. The *Libertas Americana* medal by Augustus Dupré was codesigned by Franklin when he served as U.S. Minister Plenipotentiary to the Court of France. This medal served as the model for the 1793 U.S. cents and half-cents.

FRANKLIN & HALL. The partnership of Benjamin Franklin and David Hall printed bills dated 1753, 1758 and 1760 for Delaware and bills dated 1749, 1755, 1758, 1759, 1760 and 1764 for Pennsylvania.

FRANZ, Peter. This prover was employed at American BNCo from 1 April 1901 until 22 July 1941 when he died.

FRAUZ, Walter. *Eng.* He was employed at Republic BNCo as early as 1905. There, he engraved over 200 subjects, including at least 30 small heads and subjects for bond coupons. Much of his work was probably used by Security BNCo after they purchased RepBNCo in 1942. Frauz engraved the *Haile Selassie* portrait on Ethiopia $1-$500, P12-17.

Corporate Bonds

Atlas, Atlas Powder Co. $1,000, 6% income cp. bd (1913).
Barnsdall, Mr., Barnsdall Corp., $1,000: 8% sinking fund, reg. convert. bd.; 6% debenture (1926).
Eagle (industrial background), $1,000: Cerro de Pasco Copper Corp. 6% convert. cp. bd. (1915); Canada Copper Corp. 6%, 1st mort. convert. cp. bd. (1917).
Female, Caduceus & Winged Wheel, $500: Aldred Investment Trust shareholder cp. deb. (1927); General Vending Corp. 6% sinking fund security bd. (1927).
Locomotive, Missouri Pacific RR, $1,000, 4% gen. mort. cp. bd. (1917).
Man with Caduceus & Winged Wheel, Brooklyn-Manhattan Transit Corporation $1,000, 6% sinking fund cp. bd. (1934).

Stock Certificates

Eagle (industrial background), Seaboard Steel & Manganese Corp. (1910).
Female with Winged Wheel, McCrory Stores Corp.
Man, Scythe, Globe & Winged Wheel, Advance-Rumely Corp.

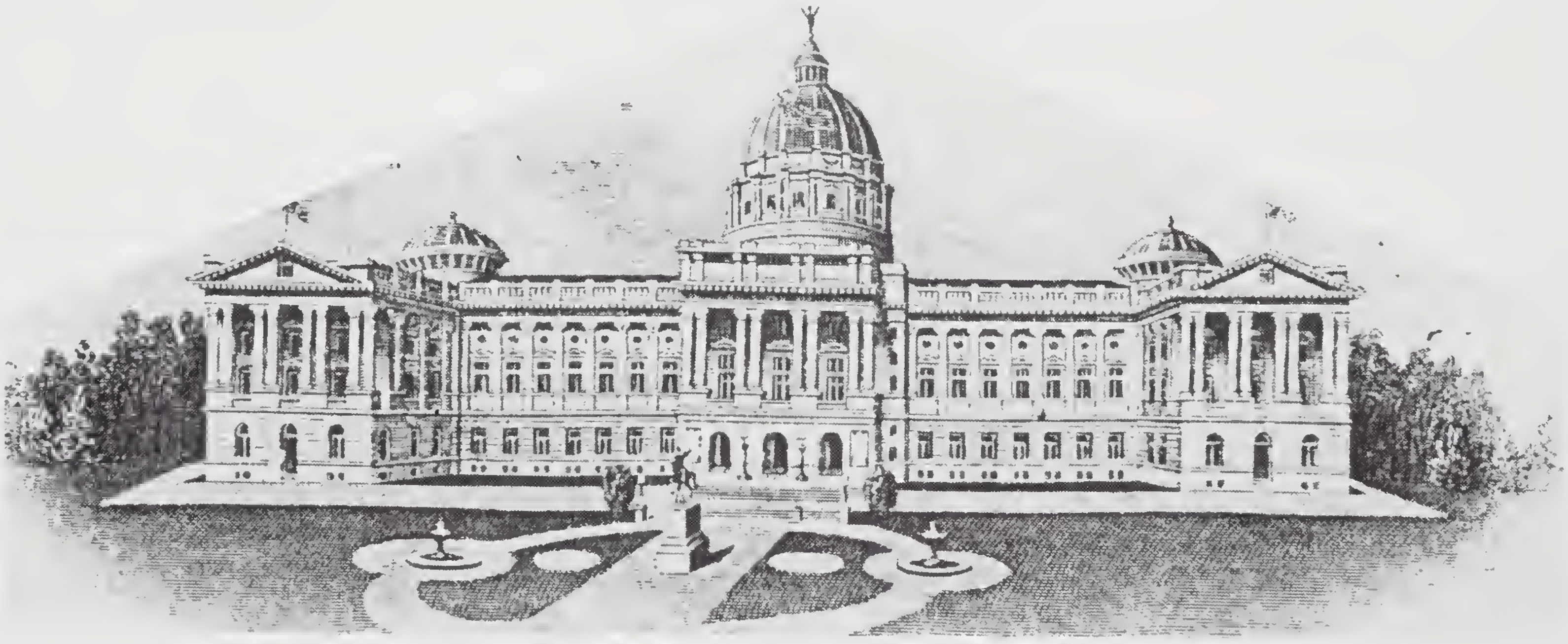
Miscellaneous

Unless specified, the use is uncertain for the following subjects engraved for RepBNCo.

Allegheny County Court House, County of Allegheny $1,000, 4% uncollected cp. bd. (series 1, 1933).
Beaver.
Bridge-Boats-River Panorama.
Building, City of Oakland School & Auditorium $1,000, 4½% cp. bd. (1911).
Citizens & Southern Bank, Savannah, GA.
Citizens National Bank.
Citizens National Bank, Washington, PA.
Citizens Saving & Trust Co., Cleveland.
City Deposit Bank.
Cleaveland, Gen. Moses, Statue.
Cleveland National Bank.
Commonwealth Trust Co.
Continental Soldier.
Corporation Building, 20 Wacker Drive, Chicago.
Cotton Picking Scene.
Detroit Seal, City of, City of Detroit $1,000, gen. pub. improv. cp. bd. (1924).
Eagle & Building (large headpiece for State of Connecticut).
Female & Eagle (souvenir card for Currency Club of Chester County, PA).
Female & Man (seated) *with Globe*.
Female (seated) *with Torch in Each Hand*.
Female (seated) *with Torch, Palm & Lion*.
Female with Cornucopia & Child.
Female with Torch & Child with Wreaths.
Female with Torch & Wreath.
First National Bank.
Forester & Trees.
Fourteenth Street Bank.
Gold Prospector (seated).
Horne, Joseph.
Ice Block & Tongs.
Jacob Dold Packaging Co. logo.

Miscellaneous
(continued)

Jones & Laughlin Steel Mills.
Justice.
Lincoln, Abraham.
Locomotive, Chicago, Rock Island & Pacific $1,000, 4½% convert. cp. bd. (1930).
Lone Star Cement Corp. logo.
Man (unidentified), City of New Orleans $1,000, 4½% serial cp. bd. (1917).
National Bank of Braddock.
Neptune.
New Jersey State Seal.
Oil Field Panorama.
Oil Well for Wellsburg Bank & Trust Co.
Paddlewheel Steamboat, check from FNB of Burlington, Iowa.
Philadelphia-Camden Bridge, Delaware River Joint Commission, 4¼% cp. bd. (1933).
Pinkham, Lydia.
Road Through Forest.
Santo, Chief (trade mark).
Ship Construction.
Statue of Liberty.
Steel Mill & Two Men.
Steel Workers (5).
Sugarcane Harvesting.
Truck Loading.
Union Tank Corp. Car.
U.S. National Bank of Omaha.
Wales, Princess of.
Westinghouse, George.



Pennsylvania State Capitol, Commonwealth of PA, $1,000, 4% cp. bd. (1925).

FREEMAN, William. *Eng.* In 1827, Christian Gobrecht made a ruling machine for him. A.W.H. Freeman was engraving in Baltimore in 1830.

FREW, J. Trans. He was employed at American BNCo on 4 Dec. 1908. Following periodic re-employment Frew left on 12 July 1934.

FREY, Louis. *LtEng.* He began his employment at American BNCo on 20 Aug. 1901.

FREY, Philip. *Des.* He began his employment at American BNCo on 26 Feb. 1906. On 9 Sept. 1935 Frey moved to the Design Dept.

FRIZZELL, William H. *Eng.* He was employed at American BNCo in 1911.

FROST, Alfred. *Trans.* He worked for Kihn Bros and Hamilton BNCo. Frost began his employment at American BNCo in Sept. 1908. Following periodic employment he was at ABNCo as late as 10 July 1944.

FUILICK, Joseph. *Pr.* After working for the Bureau of Engraving and Printing he applied for employment at American BNCo ca. 1929.

FURNASS, John Mason. *Art & Eng.* b. 4 Mar. 1763, d. Dedham, MA 22 June 1804. This cousin of Nathaniel Hurd engraved certificates for the MA Loan Society.

G

GAINE, Hugh. *Pr.* b. Ireland ca. 1726, d. NY 25 Apr. 1807. His apprenticeship was under James Macgee in Belfast. In New York City he worked under James Parker. Gaine, a successful printer, published *The New York Mercury* and printed New York notes dated 16 Feb. 1771 and those issued by the New York Mfgr. Co. Society dated 22 June 1790. He was able to "straddle the fence" of British and American loyalty. Gaine was printer to the government, 1768-1773; and printer to the British Crown in New York, 1774-1775.

GALLAUDET, Elisha. *Eng.* b. New Rochelle, NY ca. 1730. He was engraving as early as 1759. Gallaudet engraved portions of bills for New York dated 1771 and 1774.

GALLAUDETT, Edward. *Eng.* b. Hartford, CT 30 Apr. 1809, d. Hartford, CT 11 Oct. 1847. He probably performed his apprenticeship in Hartford. Gallaudett worked for John Cheney in Boston and is the possible engraver of the Franklin portrait on the $3, E. Bridgewater Bank, MA.

GAVIT, John Edmonds. *Eng & Sid.* b. NYC 29 October 1817, d. Stockbridge, MA 25 August 1874. He began his career with Burton, Durand & Edmonds in 1833; four years later he learned transferring with Smith, Perkins & Co. in Boston. In 1838 Gavit was with Hall, Packard & Cushman. Soon thereafter he formed a partnership with Rawson Packard (1840-1841). From 1841-1849 and again from 1852-1858 he operated John E. Gavit & Co.; in 1849 and 1850 the company name was Gavit & Duthie, and during 1851-1852 Gavit & Co. The die for the Albany Postmaster stamp, inherited by American BNCo, is credited to Gavit. He joined ABNCo in 1859, served as vice-president in 1864 and president from 1866-1874. He invented an automatic, facsimile signature machine. In addition to a stock certificate for the Utica Schenectady RR, the following U.S. obsolete bank notes bear the Gavit name, or are credited to him:

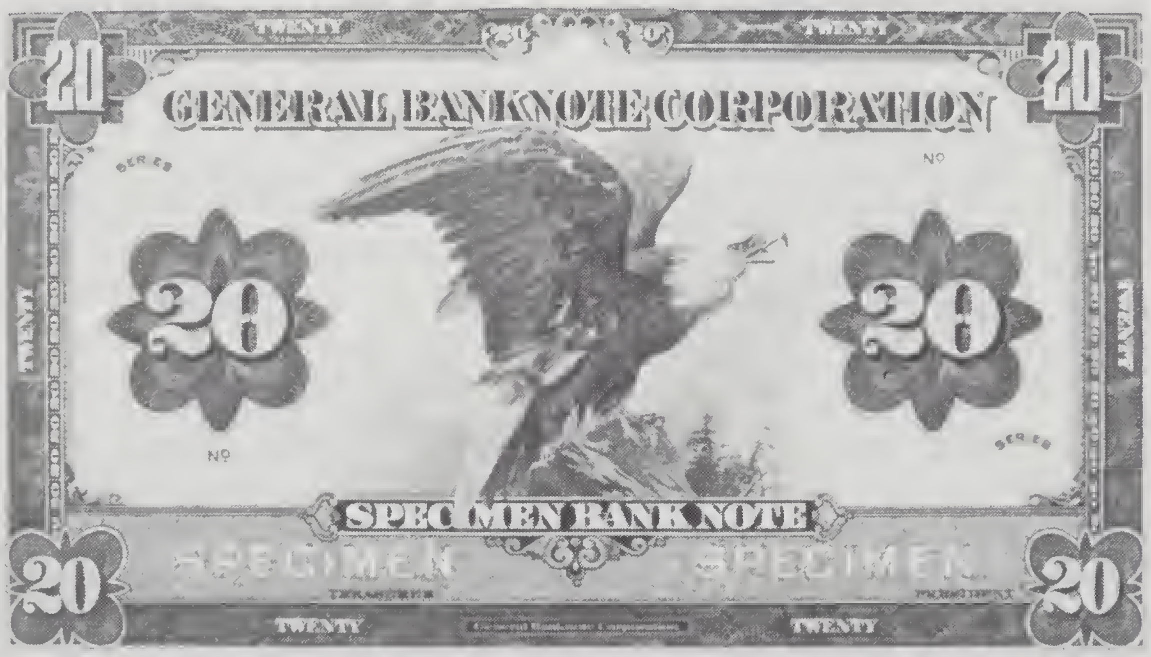
District of Columbia
Commercial Bank of Georgetown, $1, $2 & $5.
Presidents Bank, Washington, $1, $2 & $5.
New York
Union Bank of Albany, $2, $5 & $10.
Catskill Bank, $1, $2, $5 & $10.
Bank of Cazenovia, $20 & $50.
Commercial Bank of Wayne County, Clyde, $1, $2 & $5.

New York
Otsego County Bank, Cooperstown, $1, $2, $3, $10 & $20.
Cassadaga Bank, Jamestown, $1, $2, $5 & $10.

Excelsior Bank, Meridian, $1, $2, $5 & $10.
Yates County Bank, Penn Yan, $1 & $2.
Weedsport Bank, $1, $2, $5, $10 & $20.

GAW, R.M. *Eng.* He was employed by Peter Maverick in Newark, NJ in 1829, and was a partner in Allen & Gaw. In 1860 Gaw was in Philadelphia.

GENERAL BANKNOTE CORP. In July 1934 A. Claxton Cary, III organized this company; Cary had resigned from American BNCo in 1929. For a brief time Hamilton BNCo collaborated with GenBNCorp to develop a new type of steel plate press based on the principle of hydraulic pressure. In April 1939 their address was 1160 University Ave., Rochester, NY; the following year the company filed for bankruptcy. An advertising note for this company is illustrated below.



GENSON, C. He was in the General Engraving Division of American BNCo in 1911.

GEORG(E), Henry C. He began his employment at American BNCo on 22 Sept. 1904 and remained in the Design Dept. until 1958.

GEORGE, H. He was in the Modeling Division of American BNCo in 1911. This modeler could be the same as the preceding.

GEORGE, Morris R. *Sid.* b. Reading, PA 25 Jan. 1916. He was appointed to the Bureau of Engraving and Printing on 3 Nov. 1893.

GIESE (GEESE), Fritz. (see Amendt.)

GILL, John. *Pr.* b. Charlestown, MA, d. 25 Aug. 1785. His apprenticeship was under Samuel Kneeland. He was the sole publisher of *The Continental Journal* (see EDES, Benjamin).

GILLELAN, Thomas. *Trans.* He was employed by American BNCo and, along with A.G. Goodall and other American bank note technicians, was sent to work in Russia in 1860.

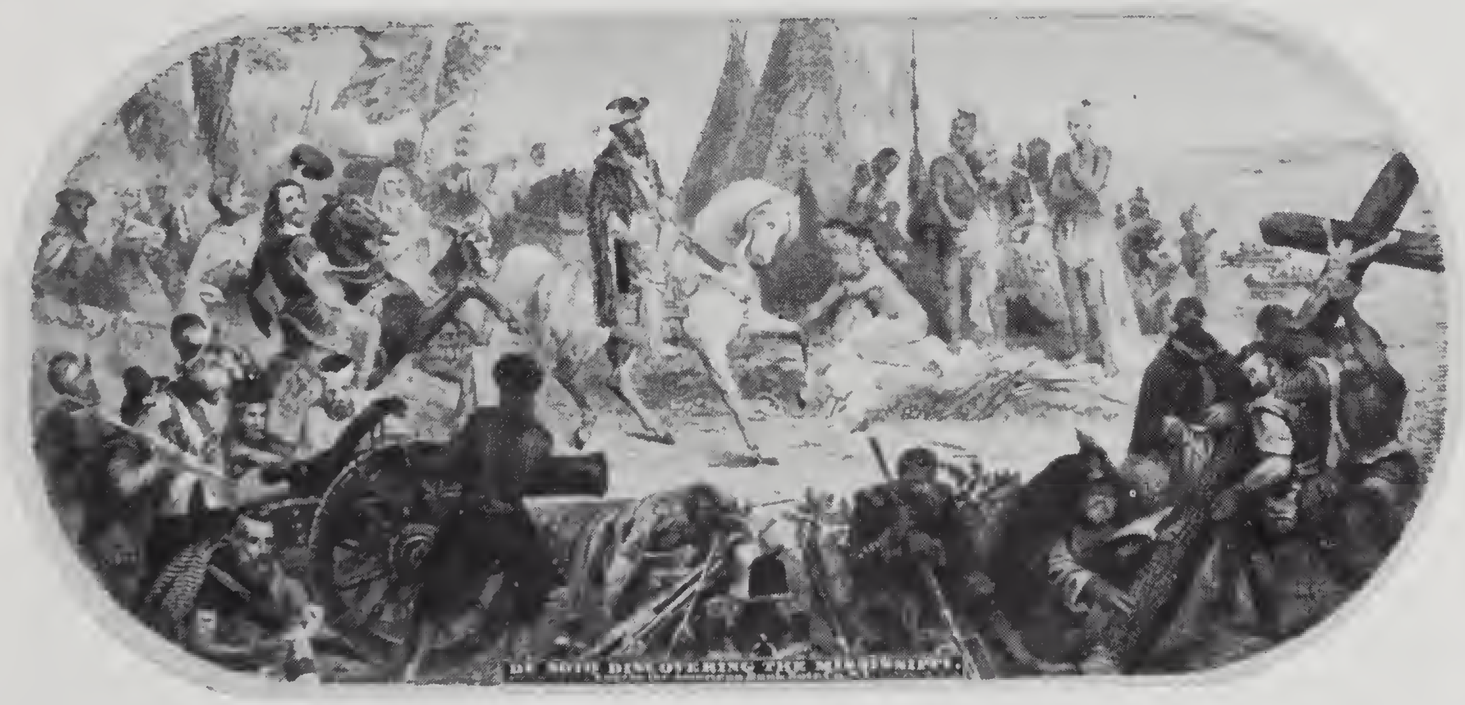
GILLHAIM, Robert. This engraver was at the Bureau of Engraving and Printing ca. 1887.

GIMBREDI, _____. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1812.

GIRSCH, Frederick. *PEng.* b. Beidingen, near Darmstadt, Germany 31 March 1821, d. Mt. Vernon, NY 18 Dec. 1895. As a boy he received drawing instructions from Carl Seeger. He supported his mother and four sisters by painting. His portrait of a *Princess* helped Girsch to attend the Royal Academy of Darmstadt. In that city he engraved for G.G. Lange. In 1848 he went to Paris to study; the following year he came to New York City. His first work in the U.S. was as etcher and engraver for the *New Yorker Criminal Zeitung*. In New York City Girsch also worked for other publishers including D. Rice, A.N. Hart, and *DeBow's Review*. The portraits of G.B. McClellan, David D. Porter, George Washington and John Winthrop in *Appletons' Cyclopaedia of American Biography* were engraved by this artist. Bank note engraving was his forte. From 1855 to 1866 Girsch engraved for Danforth, Wright & Co. He engraved for American BNCo as early as 6 Dec. 1862 and as late as 12 June 1875. He might have also engraved for the National BNCo, and perhaps the Continental BNCo.

United States Federal Bank Notes

Columbia, FC 15¢, H1539-1542.
Declaration of Independence: $2 FRN, H207, and $100 NBN, H1151-1174a.


DE SOTO DISCOVERING THE MISSISSIPPI

DeSoto Discovering the Mississippi, $10 NBN (back), H497-539, and $500 FRN, H1370.
Liberty, FC 10¢, H1530-1534.
Lincoln, Abraham, $10 DN, H463A-H465e, and $10 USN, H464-465e.
Man with Scythe, $500 IBTN, H1340b.
Surrender of General Burgoyne to General Gates at Saratoga, $500 (back) NBN, H1350-1351a.
Washington, George, FC 25¢, H1568-1572.
Washington Resigning his Commission, $1,000 NBN, H1403 & H1404.

United States Obsolete Bank Notes

Butler, Gen. William, State of SC $10.
Female and Bust of G. Washington, Citizens' Bank, New Orleans, LA $100.
Miller, C., Bank of Amsterdam, NY $1 & $2.
Parting Words (artist, F.O.C. Darley), County of Erie, PA $2.
Scouting Party, Salem Bank, MA $10.
Waiting for the Tide (artist, G.H. Thomas), Commercial Bank of Bristol, RI $2.

Foreign Bank Notes

Argentina
Bacchus, 50 pesos, PS490.
Founders of the Banco de la Provincia Buenos Aires, 200 pesos (back), PS543.
Necohea, Gen. D.M., 1 peso, PS649.

Brazil
Bacchus, 2 mil reis, PA251.
Dom Pedro, II, 500 reis, PA242.
East Meets West, 50 mil reis, PS688.
Female Leaning on Column (etched by J. Smillie), 20 mil reis, PA259.
Raphael's Angel (small version), 5 mil reis, PA264.
The Arts, 5 mil reis, PA264 & P18.
Union, 50 mil reis, PS688.

Canada
Gooderham, W., $1, PS681.

Colombia
Bacchus, 100 pesos, P218.

Colombia
Caldas, 10 pesos, P143.
Raphael's Angel (large version) 5 pesos, PS666 & 10 pesos, PS783.

German Federal Republic
La Critique (see Mexico), 100 marks, P8.

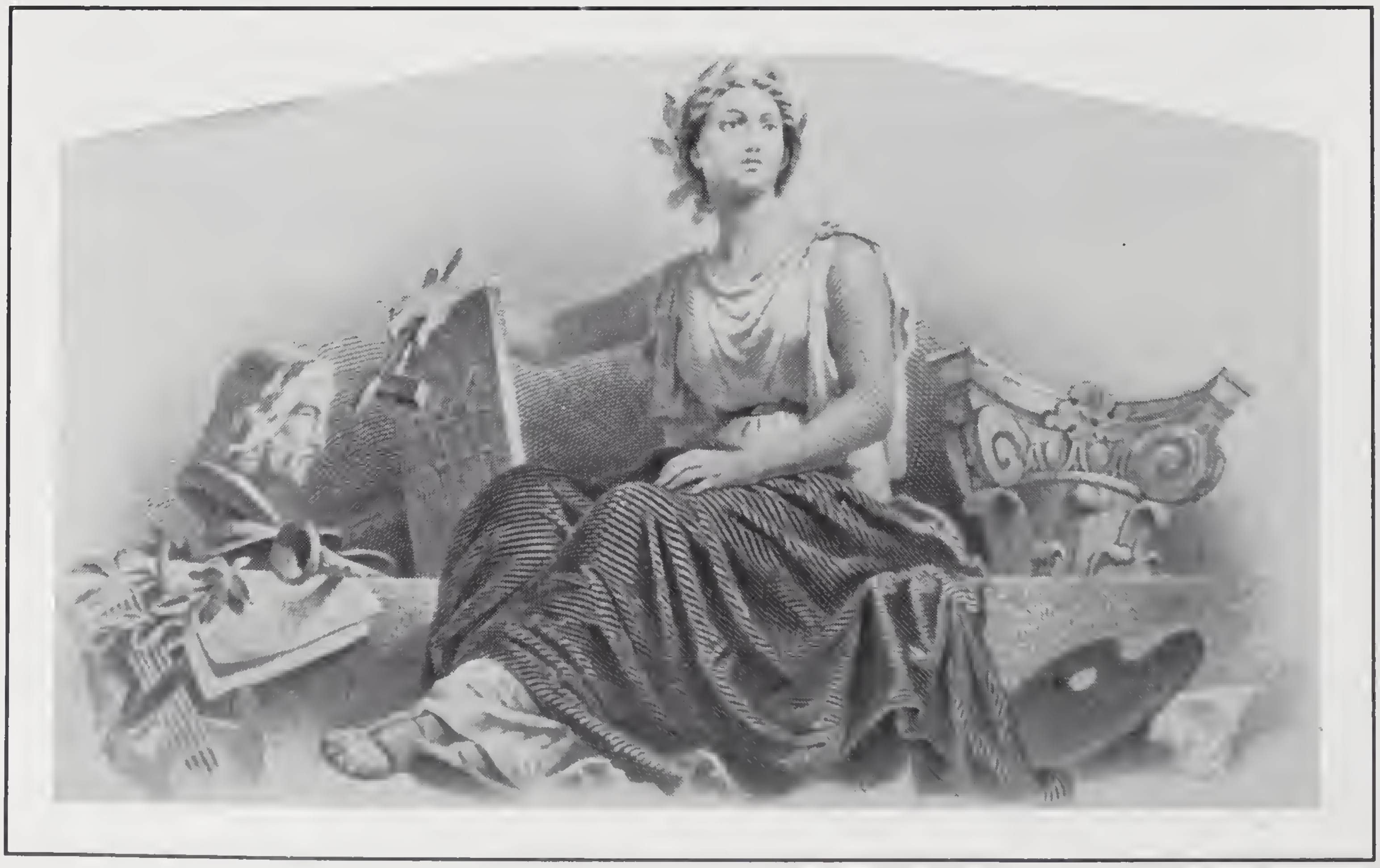
Haiti
Dominique, 1 piastre, P68-72.

Mexico
Bacchus, 50 pesos, PS158.
East Meets West, 20 pesos, PS460.
La Critique (original art by A. Pietrasanta; eng. for NBNCo and probably reworked at ABNCo by A. Jones), 5 pesos, PS155.
The Arts, 1,000 pesos, PS239 & 473.
The Capstan (art by T.A. Liebler), 100 pesos, PS387.
Union, 20 pesos, PS460.

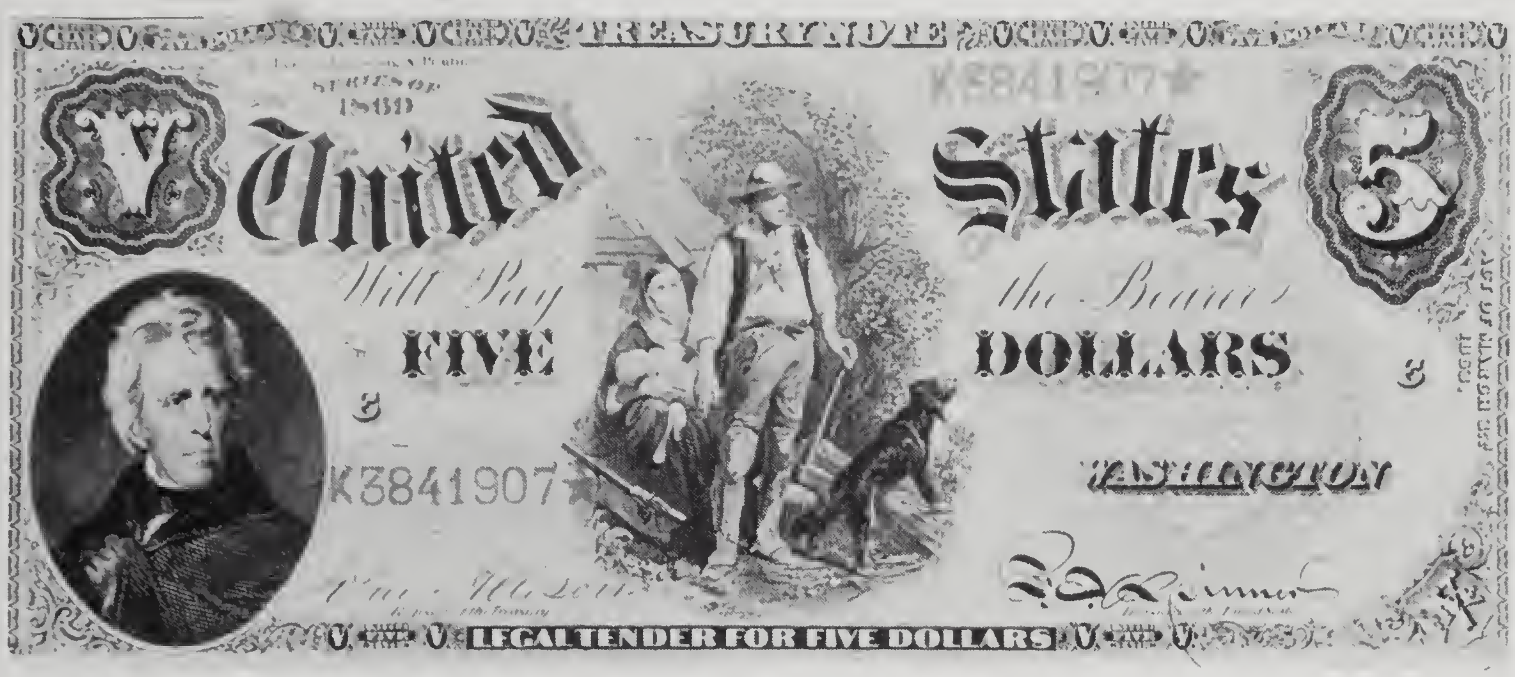
Peru
Female Head in Rays, 20 soles, PS367.
Female Head in Rays, 100 soles, PS368.
Indian and Sailor, 1,000 pesos, PS355.

Spain
Arms of Spain, 50 pesetas, P25.

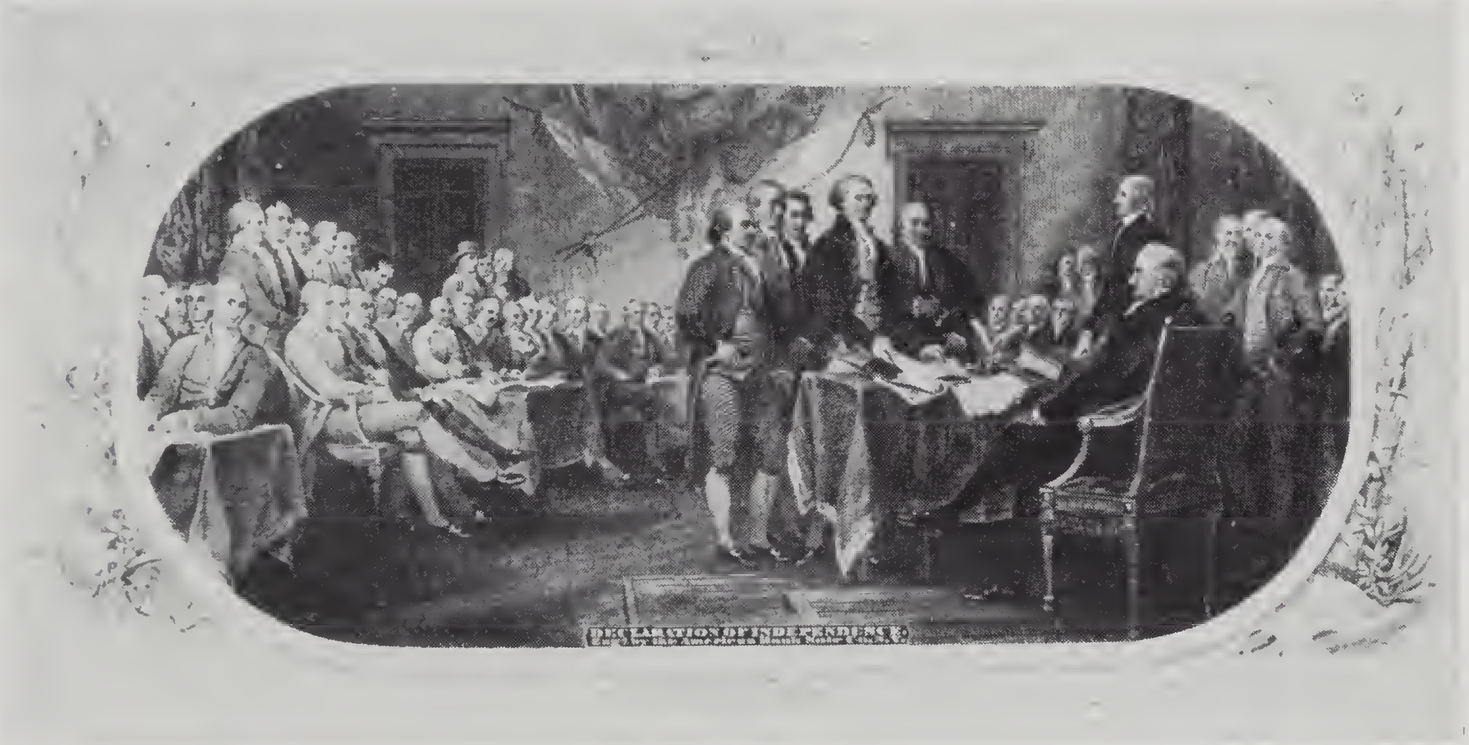
Venezuela
The Arts, 50 bolivares, PS312.
Tropics No. 2 (art and partially eng. by L. Delnoce), 100 bol., PS168.



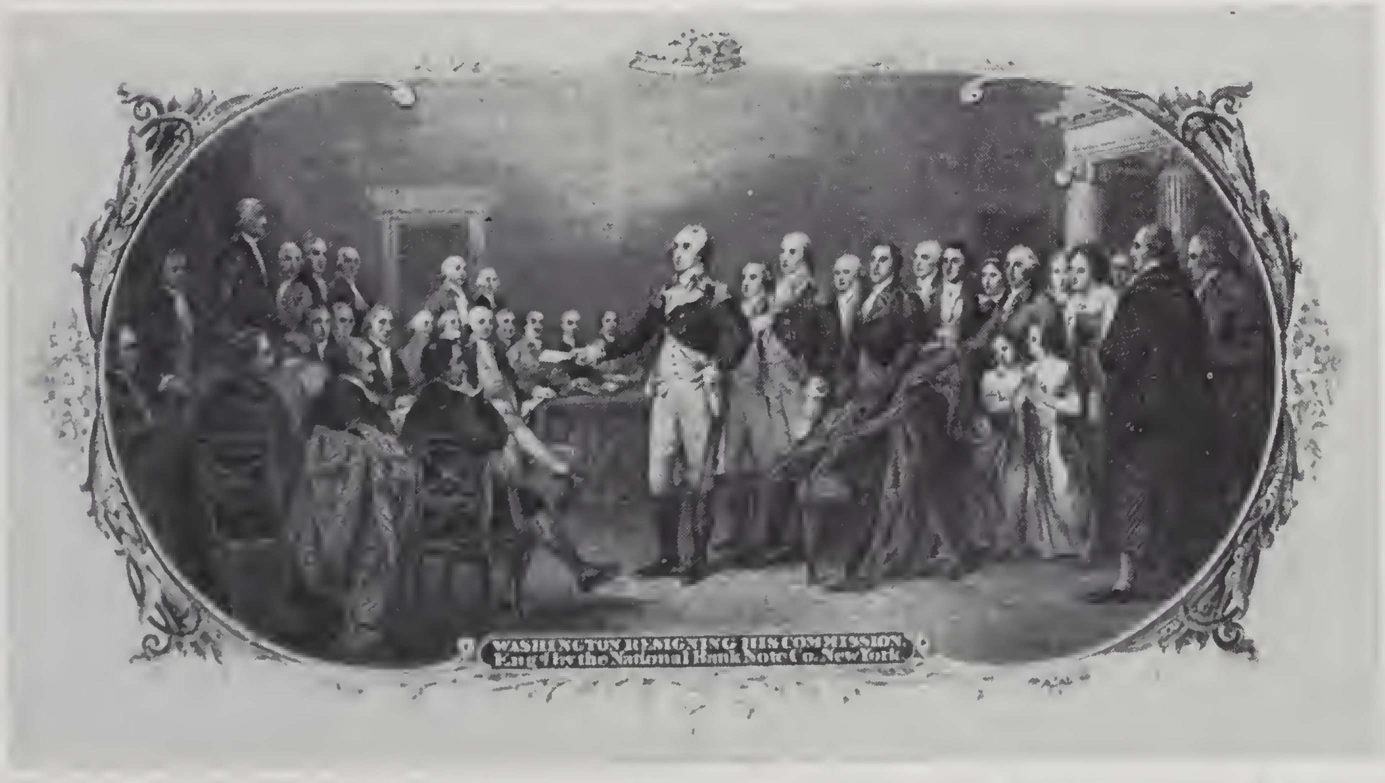
The Arts (see Brazil, Mexico and Venezuela).



Pioneer, eng. H. Gugler, $5 USN, H245.


DECLARATION OF INDEPENDENCE
Eng'd by the American Bank Note Co. N.Y.

Declaration of Independence, eng. F. Girsch, $2 FRN, H207.


WASHINGTON RESIGNING HIS COMMISSION
Eng'd by the National Bank Note Co. New York

Washington Resigning his Commission, eng. F. Girsch, $1,000 NBN, H1403.

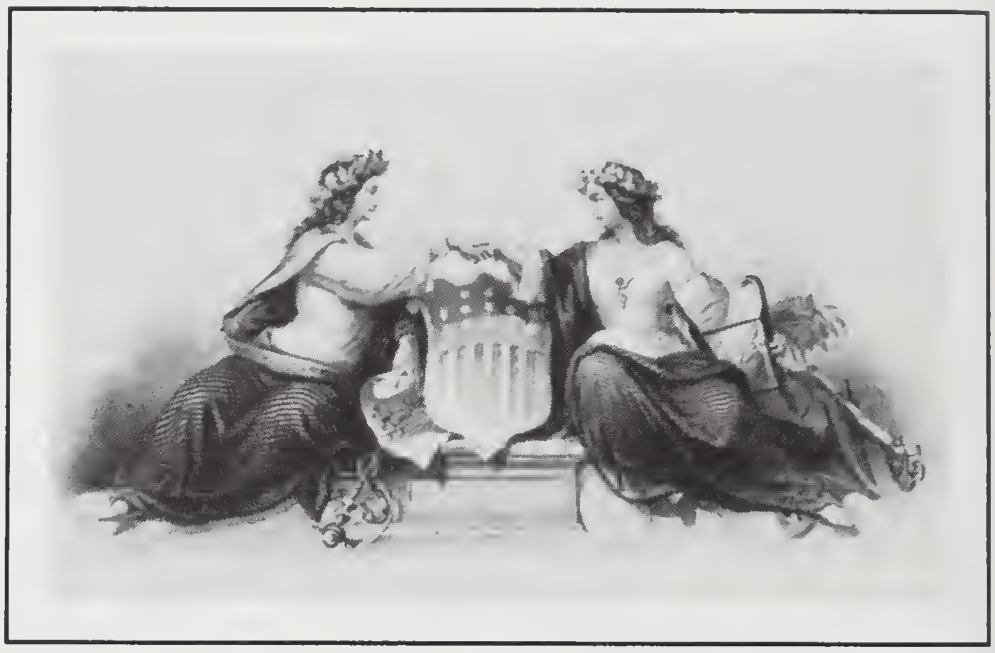
Stock Certificates

Arms of the City of New York (art by T.A. Liebler): Guaranty Trust Co. (1895); New York Guaranty & Indemnity Co. (1873).

East Meets West: Great American Insurance Co.

Miscellaneous

Atlantic & Pacific (woman, shield & flag), Union Pacific RR $1,000 bd. (1878) and stock certificate (187_).



Commerce, Mechanics & Agriculture, Rep. of Argentina bd. (1881).

Hidalgo, Miguel, **Mexico**, 1, 2 & 4 rials, & 1 peso stamps, A3 (all but 4 rials eng. with J. Bannister).

Man with Scythe, Pine Creek Rwy Co. bd. (1885).

The Vivandiere (art by Darley), Greenville FNB, PA draft (1883).

GLADDING, K.C. Some poorly engraved "rewards of Merit" from ca. 1825, with bank note-type ornamentation are signed "K.C. Gladding, SC."

GLEASON, Thomas. *Des.* b. ca. 1850. He was with American BNCo until ca. 1880 when he formed a partnership with Marcus W. Baldwin in NYC. Baldwin & Gleason employed engravers who later gained personal recognition, viz., John Guilfoile, John MacCaskie, W.G. Brown, Robert Savage and F. Louis Siebert. This company flourished until 1891 when there was insufficient intaglio work to occupy them. Baldwin & Gleason survived by engraving stationery.

GLOISTEIN, H. He was in the General Engraving Division of American BNCo in 1911.

GLOSTEN, Harry. *ScrpEng.* d. 22 March 1928. His time of employment at American BNCo is uncertain.

GLOVER, DeWitt Clinton. *Eng.* b. & d. DeRuyter, Madison County, NY (1817, 3 January 1836). He studied with John and William Casilear in 1834. Lloyd Glover was his brother.

GLOVER, Lloyd. *Eng.* b. DeRuyter, Madison County, NY July 1825, d. 2 Aug. 1862 while visiting in IL. He learned engraving in Boston and for several years headed that branch of Danforth, Wright & Co. Glover eventually joined the National BNCo.

GOBRECHT, Christian. *Des, D-S, Eng, I & Med.* b. Hanover, PA 23 December 1785, d. Philadelphia 23 July 1844. He was apprenticed to a clockmaker in Lancaster, PA. In 1810 he moved to Philadelphia and by 1816 Gobrecht was with Murray, Draper, Fairman where he met Asa Spencer and Jacob Perkins. Gobrecht was first engaged as a die-sinker at the U.S. Mint where he became Chief Engraver, a position he held at his death. His medal-ruling machine invention caused Asa Spencer to invoke a series of claims for a similar invention.

GOGGIN, J. This pantograph operator was at American BNCo as early as 1870 and as late as 1911.

GOGGINS, Jimmy. He was a pantagraph operator for ABNCo ca. 1887. This and the preceding listing could be the same.

GOLDSWORTHY, B. d. 1926. He was a transferer at the Western BNCo ca. 1871.

GOLDSWORTHY, George W., Sr. *Sid.* b. Linden, WI 1869, d. 1934. Prior to 1905 he became the superintendent of the Western BNCo. He moved to Pittsburgh and founded the Republic BNCo in 1905. George W. Goldsworthy, Jr. joined RepBNCo in 1927 and upon the death of his father became head of the firm. On 2 Nov. 1942 RepBNCo merged with the Security BNCo.

GOLDSWORTHY, Leroy (Roy) S. *Sid.* He learned the art of siderography and printing at Republic BNCo, where he became superintendent in the 1920s. He was the eldest son of G.W. Goldsworthy, Sr.

GOODALL, Albert Gallatin. *Eng.* b. Montgomery, AL 31 Oct. 1826, d. NYC 19 Feb. 1887. He learned engraving in Havana, Cuba after serving as a midshipman in the Texas Navy (1841-1844). In 1848 he went to Philadelphia to work independently as an engraver. Goodall then joined Bald, Cousland & Co. and remained with American BNCo after consolidation. In 1860, along with four bank note technicians, he went to St. Petersburg, Russia to instruct his counterparts there. From 1874-1887 he was president of ABNCo. During this same period, Goodall served as managing director of the Dominion BNCo. The first steel-engraved postage stamp for Peru was secured by him on one of the many trips as a representative of ABNCo.

GOODBODY, James L. *LtEng & ScrpEng.* b. Philadelphia, PA 11 Feb. 1925. His apprenticeship began at Security BNCo in 1946 where he remained until 1962. Goodbody engraved at the E.A. Wright BNCo from 1962-1967 and the Federated BNCo 1967-1972. He joined the Bureau of Engraving and Printing in 1972 and retired in 1988.

Stamps
United States

A923, A958 & A959, A994, A1006, A1013, A1016 & A1017, A1073, A1219, A1245, & A1261.

GOODEAVE, C. *PtEng.* A portrait of *E.B. Osler* is credited to this American BNCo engraver. He also engraved the portrait of *Guadalupe Obregon* on the Mexico 5 pesos, PS429.

GORDON, James. *Eng.* b. ca. 1820, d. 1885. He was with the Philadelphia office of American BNCo in the 1880s.

GORDON, Harry. *PlPr.* b. ca. 1841, d. ca. 1900. He was with American BNCo in the 1880s. He is the son of James Gordon.

GORDON, William. *Sid.* b. ca. 1845, d. ca. 1902. He was with the Philadelphia office of American BNCo in 1879 and later with Security BNCo. He is the son of James Gordon.

GOSSELIN, A. *ScrpEng.* He began his apprenticeship at American BNCo on 18 Oct. 1920.

GOULD, Alfred R. *GLO.* b. Brooklyn, NY 21 Oct. 1868, d. Washington, DC ca. 1943. Following employment at American BNCo he was appointed as a transferer at the Bureau of Engraving and Printing on 10 Sept. 1908; a siderographer on 1 July 1922; and artistic operator of the geometric lathe on 1 Sept. 1932. On 16 Sept. 1938 President Roosevelt granted an exemption to Gould, extending compulsory retirement for one year. A letter from Bureau Director A.W. Hall to the Secretary of the Treasury, dated 24 Aug. 1938, included the following: "He has developed attachments for the lathe and also a medallion which is not used on any other machine. This Bureau would be greatly handicapped by the loss of the valuable services of Mr. Gould, and I cannot too strongly urge that this exemption be approved, particularly in view of the fact that this Bureau is faced with an exceptionally heavy program of work." Gould, uncle to Russell Felver, was a President of the International Association of Siderographers. He retired from the BEP on 31 Oct. 1939.

GOW, Washington W. *Trans.* His apprenticeship began at American BNCo on 14 January 1913. After service during World War I Gow returned and served in supervisory positions. He was employed as General Manager of the Western Div. of ABNCo on 31 July 1945.

GRADY, Michael. *ScrpEng.* He came from Boston and began employment at American BNCo on 3 May 1919. Grady retired on 1 Dec. 1937.

GRADY, P. *LtEng.* He joined the Engraving Div. at American BNCo from the Lithographic Div. on 2 Aug. 1915. He retired sometime after his return from military service during World War I.

GRAEBER, Kenneth. *Pr.* He was with the Reynolds Offset Co. in New York City in 1953 when propaganda notes were printed for Czechoslovakia.

GRAHAM, Andrew B. The second issue of lithographed Korean stamps bear an imprint, "Andrew B. Graham Bank Notes, Bonds Etc., Washington, DC, U.S.A." This firm was founded ca. 1880; it filed for bankruptcy on 18 Feb. 1922. The 1915 U.S. Christmas Seal was prepared by Graham.

GRANT, George. *Des.* He was employed in the Lithographic Div. of American BNCo, Hamilton BNCo and the Central BNCo.

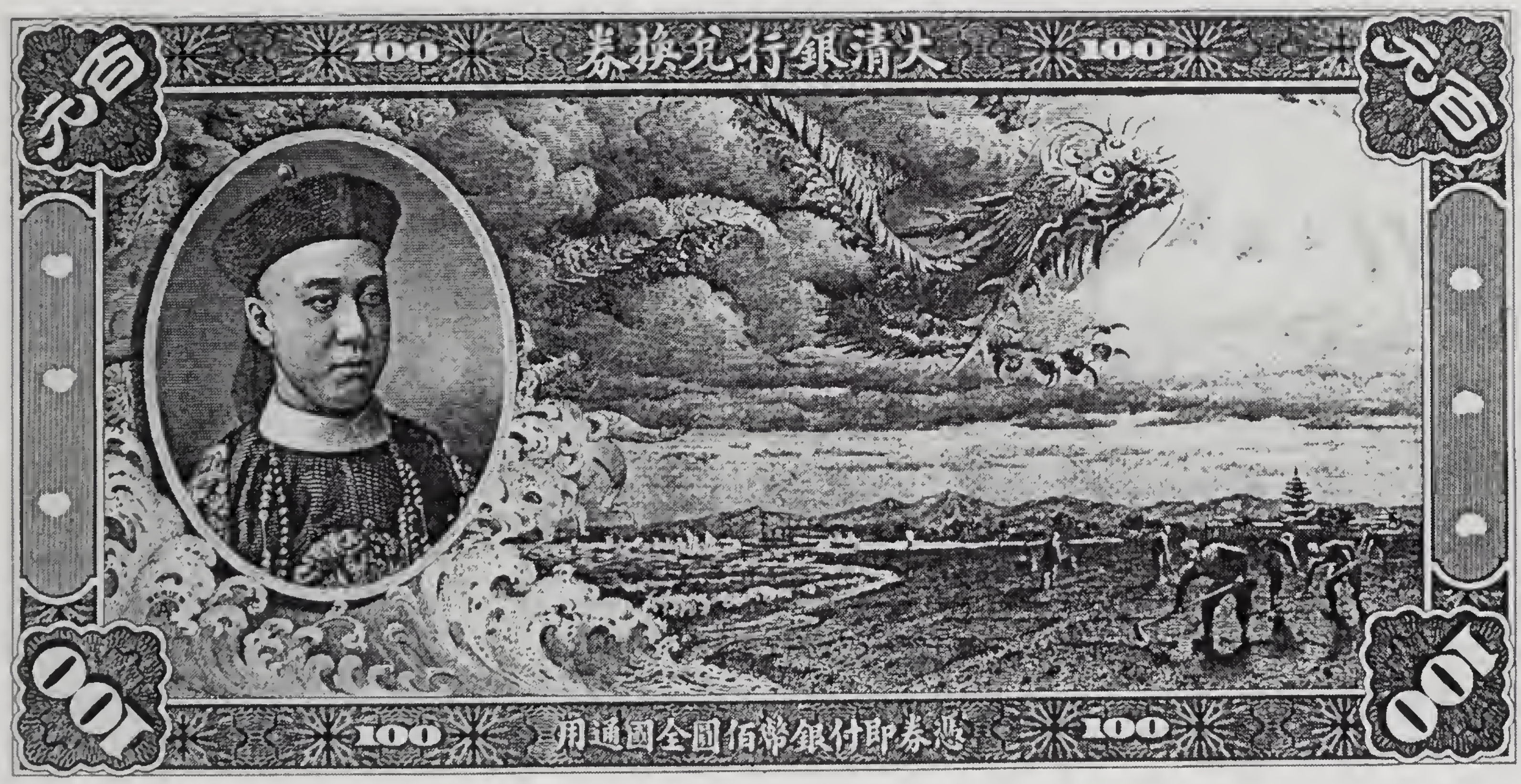
GRANT, James. *Trans.* (see Amendt.)

GRANT, William A. *PEng.* b. Bronx, NY 10 Aug. 1868, d. Contocook, NH 1954. In 1908 when he headed the engraving division at American BNCo, Chen Chin Tao from the Imperial Chinese Government asked Grant and Lorenzo Hatch to organize a Chinese

Bureau of Engraving and Printing; they accepted. In that capacity, Grant trained 300 people in engraving-related tasks. He was skilled in most areas of bank note and stamp production i.e., as a letter and script engraver and the operation of the geometric lathe. The Chinese bestowed three decorations on Grant. He owned one of the first motor cars in China. In a letter to a friend, Grant wrote the following from China:

> All of the stamps in use at the present time were entirely engraved by me. It may interest you to see one of the originals to compare with that I sent Waterlow, (in) London to copy; the second shows the Waterlow work and the third is the one that I copied from Waterlow. As the stamps were in circulation, I had to copy them as closely as possible. The reason for sending the stamps to Waterlow was due to the outbreak of the Revolution in China. The original dies were for the making of the plates when the trouble broke out and the P.O. was in a great hurry to get the stamps into circulation.

For a list of his stamp *essais* and proofs see "The Collection of Essays and Proofs of William A Grant," by H.D.S. Haverbeck, *The EPJ* Vol. 22, Nos. 2 & 3, 1965. A beautiful example of his Chinese bank note work is the 100 yuan, PA82, which includes a portrait of Prince Chün, illustrated below.



GRASS, Adolph. *Art & Des.* d. 1930. He was employed by American BNCo. About 1906 Grass created watercolor *essais* for the Commonwealth of Australia; they were engraved by Kihn Bros. BNCo.

GRALEY, _____. He was employed in the Engraving Dept. of American BNCo in 1881.

GREATHEAD, Fred. *ScrpEng.* He was employed at the Republic BNCo and periodically at American BNCo between 1916-1931.

GREEN, Anne Catherine. *Pr.* b. Holland ca. 1733, d. Annapolis, MD 23 Mar. 1775. She married Jonas Green and succeeded him in business in 1767. With her son, William, she operated Anne Catherine Green & Son (1768-1770) and printed Maryland currency dated 1 Mar. 1770.

GREEN, Frederick. *Pr.* b. Annapolis, MD. He learned printing from his father Jonas and succeeded his mother Anne Catherine as printer to the colony of Maryland. With his brother the firm of Frederick and Samuel Green began operation ca. 1777; they also operated a post office. He printed Maryland colonial notes.

GREEN, George. *LtEng.* He began his employment at American BNCo on 8 Feb. 1926. He left on 29 April 1930 due to lack of work.

GREEN, John. *Pr.* b. Boston, d. Nov. 1787. He is the son of Bartholomew Green, Jr. and great grandson of Samuel Green, Jr. (d. 1702). His apprenticeship was under John Draper. In 1755 Green and (Joseph) Russell was formed. They printed a variety of newspapers in Boston. "They also did the printing of the custom house, and published a number of pamphlets..." (Thomas 139). It is uncertain if they printed paper money.

GREEN, Jonas. *Pr.* b. Boston ca. 1711, d. MD 7 Apr. 1767. He is the son of Timothy Green (d. 1763) who took his family from Boston to New London in 1714. Jonas Green returned to Boston to work with his brother Timothy, Jr., and for a while was in Philadelphia with B. Franklin and Andrew Bradford. In 1740 he moved to Annapolis as printer for the colony of Maryland for £500 annually; he printed Maryland colonial notes.

GREEN, Timothy. *Pr.* d. 1757. He was the son of Samuel Green, Jr. of Cambridge, MA (d. 1702). In 1714 Timothy Green was called from Boston to Connecticut by the general assembly. He is the probable printer of Connecticut notes from 1709 to ca. 1757.

GREEN, Timothy, II. *Pr.* b. Boston ca. 1703, d. New London, CT 3 Oct. 1763. He learned printing from his father. A 25-year partnership with Samuel Kneeland was dissolved in 1752. Green moved to Connecticut and succeeded his father as printer to the colony. He printed Connecticut notes ca. 1757 to 1780.

GREEN, Timothy, III. *Pr.* b. New London, CT ca. 1731, d. 10 Mar. 1796. He is the son of Samuel Green (d. 1752). In 1773, with his brother-in-law, Judah Paddock Spooner, Green formed Spooner & Green in Norwich, CT. In 1778 they moved to Hanover, NH and three years later to Westminister, VT. Spooner and Green printed VT notes dated Feb. 1781.

GREEN, William. With his mother, Anne Catherine, he printed Maryland currency dated 1 March 1770.

GREEN, Warren L. *Des & Mod.* d. 1919. He was employed by American BNCo in their railroad branch room at 142 Broadway ca. 1880. From 1906 until his death Green was president of ABNCo.

GRIDLEY, Enoch G. *StEng & LEng.* He was in New York City from 1803 to 1805; he was later in Philadelphia.

GRIFFITH, Joseph I. b. Washington, DC 1860. He was first appointed as a carpenter at the Bureau of Engraving and Printing on 20 Jan. 1880. On 1 July 1883 he became a plate cleaner; he became a transferer on 1 July 1887. Griffith retired on 20 August 1920.

GRIFFITHS, James. *ScrpEng & LtEng.* d. 1932. He was with the Homer Lee BNCo in 1913. On 12 March 1917 Griffiths joined American BNCo.

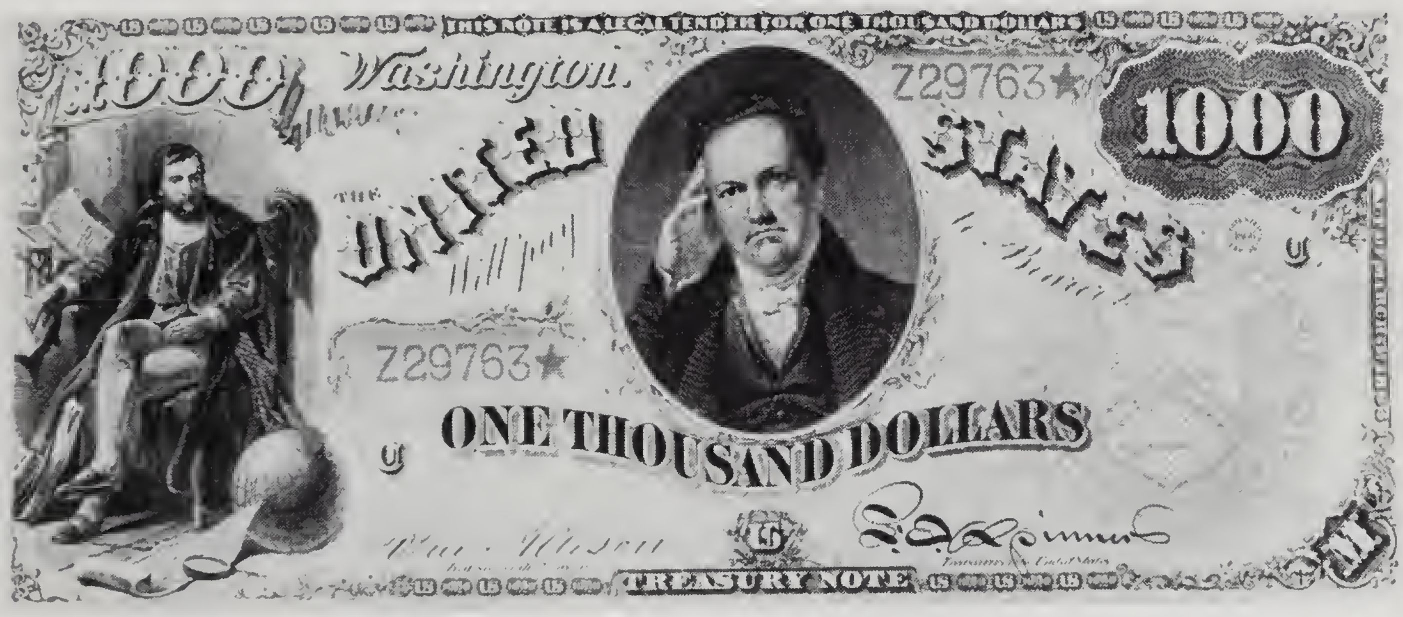
GRIMM, Harry. *ScrpEng.* He joined American BNCo on 30 July 1928. Grimm left on 30 Jan. 1931 due to a lack of work.

GROSSMAN, _____. *Art & Des.* He created art for American BNCo. The man and woman, engraved by John Hay, on the Kroehler Mfg. Co. stock certificate is probably his work.

GROVE, Edward R. *Med & PEng.* b. Martinsburg, VA 14 Aug. 1912. He went to the Bureau of Engraving and Printing in 1936 where he was employed for eleven years. While there, he engraved the portrait of *John C. Spencer* on the stock transfer stamp and numerous postage stamps. In 1947 Grove was engraving for the Security BNCo. He engraved over 200 postage stamps for Bolivia, Cuba, Haiti, Iran, Laos, Vietnam, Panama, Paraguay, the Philippines and the Sudan. His bank note work at SecBNCo included notes for Indonesia, Laos, Sudan and Vietnam. Ca. 1961 he moved to the U.S. Mint, where he remained until retirement in August 1965. In 1969 the American Numismatic Association named E.R. Grove as Outstanding Sculptor of the Year.

GUGLER, Henry. *PEng & PtEng.* b. Germany 1816, d. 1880. He came to the U.S. in 1853 and almost immediately began to engrave for bank note companies. On 15 Jan. 1863 Gugler was employed as an engraver, one of the first, at the National Currency Bureau (BEP). He left the Bureau in 1866 to engrave a life-size portrait of *A. Lincoln* based on a painting by John H. Littlefield. This engraving served as the model for the 4¢ stamp of 1890 (A222); Alfred Jones engraved the stamp. Between 1855 and 1864 Gugler is listed at various addresses in New York City. In 1878 he founded the Gugler lithographic firm of H. Gugler & Son in Milwaukee; in 1833 it became the Gugler Lithographic Co.

United States Federal Bank Notes



Columbus in his Study, $1,000 USN, H1379-1391. (The C.C. Ingham portrait of DeWitt Clinton was engraved by Charles Burt.)
Eagle, $10 USN, H466-468.
Lincoln, Abraham, $20 CITN, H724-726, and $20 IBTN, H727.
Pioneer, $5 USN, H245-273.

GUILFOYLE, John. *PEng & PtEng.* From American BNCo, where he was employed perhaps as early as 1886, Guilfoyle moved to the Bureau of Engraving and Printing where he was Superintendent of Engraving from 1922 to 1924.

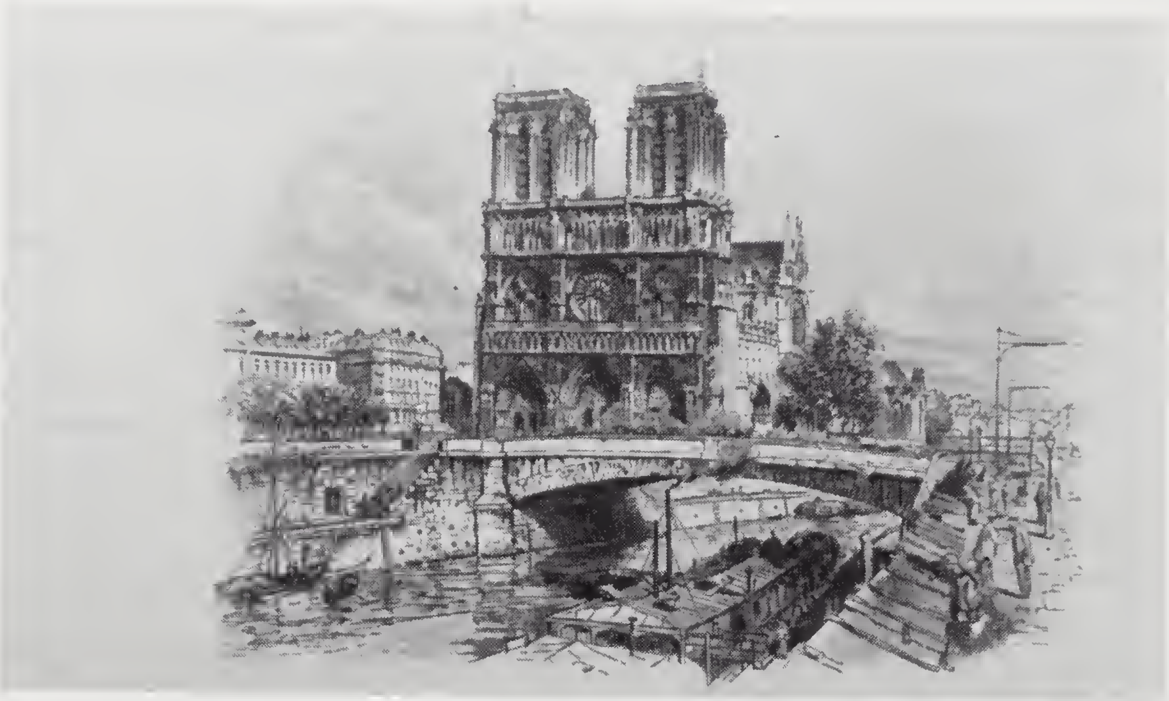
Foreign Bank Notes

Brazil
Female, 200 mil reis (back), P73.
Female and Eagle (eng. with C. Skinner), 10 mil reis, P34.
Canada
Clione (eng. with C. Skinner) $20, PS1541.
Female and Eagle (eng. with C. Skinner), $10, PS1373.
Hawaii
Arms of Hawaii, $10 (back), P1.
Mexico
Female and Eagle (eng. with C. Skinner), 20 pesos, PS103.
Liberty (eng. with W.J. Brown), 20 pesos, PS383.

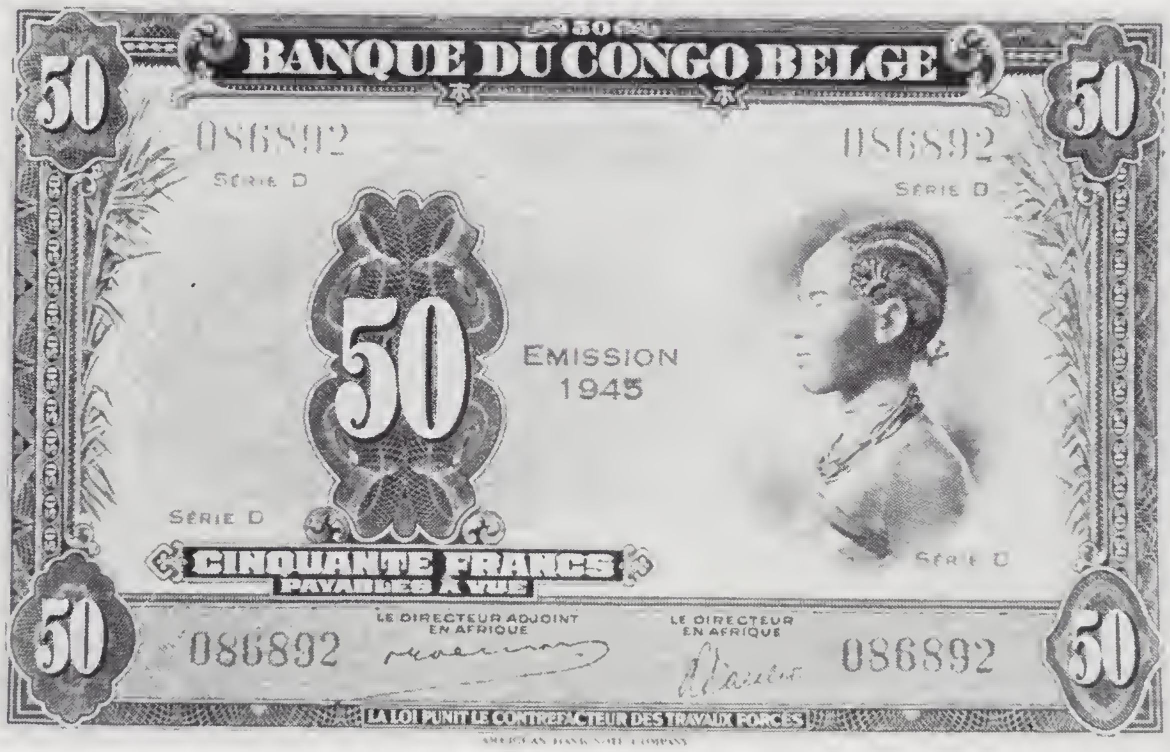
Corporate Bonds & Stock Certificates

Globe, Telephone, Telegraph Cable Co. (1900).
Record of Science (this two-part engraving includes the image of *St. Dunstan*): Northern Pacific RR Co.; New England T&T Co.; Silversmiths Co. (1893).

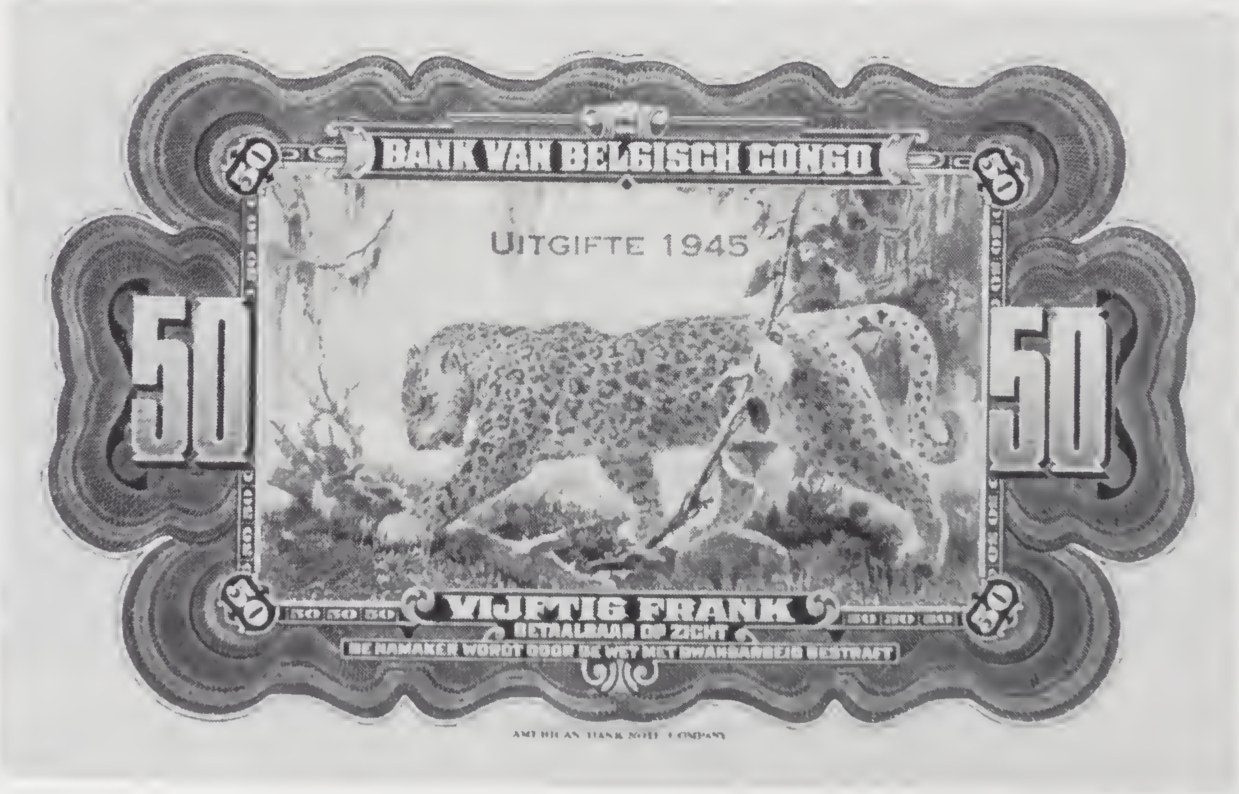
Engravings by Edwin Gunn



Notre Dame Cathedral, use uncertain.



African Female Head, Belgian Congo 50 francs, P16.


BANK VAN BELGISCH CONGO
UITGIFTE 1945
50
50
VIJFTIG FRANK
BETAALBAAR OP ZICHT
DE NAMAKER WORDT DOOR DE WET MET DWANGARBEID GESTRAFT
AMERICAN BANK NOTE COMPANY

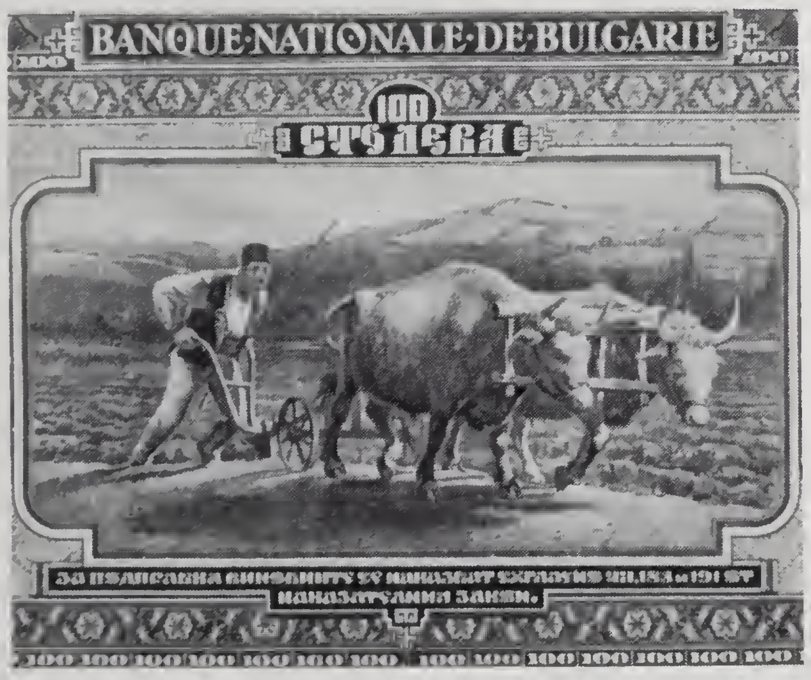
Leopard, Belgian Congo 50 francs (back), P16.

GUNDERSEN, George A. *Des & PEng.* d. 18 Apr. 1975. He studied art at the Ontario College of Art in Canada, the Art Students league, Woodstock NY and the Académie Julienne in Paris. He designed and engraved at the Bureau of Engraving and Printing and later became the Art Director for the British American BNCo. Gundersen retired from the BrABNCo on 31 Mar. 1975. He designed stamps for Sarawak and Canada including the prize-winning 1934, 3¢, *Jacques Cartier* stamp SA72. His engravings include stamps for Canada, Bolivia, Honduras, Iran and the U.S. He engraved both portrait types of *Queen Elizabeth II* on Canada $1-$100, P66-73 and P66A-73A.

GUNN, Edwin H. *PEng & PtEng.* b. 1876, d. 10 Oct. 1940. He studied at Cooper Union Art School and the National Academy of Design in New York City; he was a member of the prestigious Salmagundi Club and the New York Water Color Club; he exhibited at the NAD and the American Water Color Society. Mr. Gunn probably joined American BNCo 26 October 1891. This respected engraver became Superintendent at ABNCo on 2 Nov. 1923.

Foreign Bank Notes

Belgian Congo
African Female Head, 50 francs, P16.
Leopard, 50 francs (back), P16.
Bolivia
Electricity (Mercury), 1-10 bolivianos, P112-114.
Mercury (seated) (eng. with R. Savage), 50 & 100 bol., P110 & P111.
Brazil
Salles, Dr. C., 10 mil reis, P36.



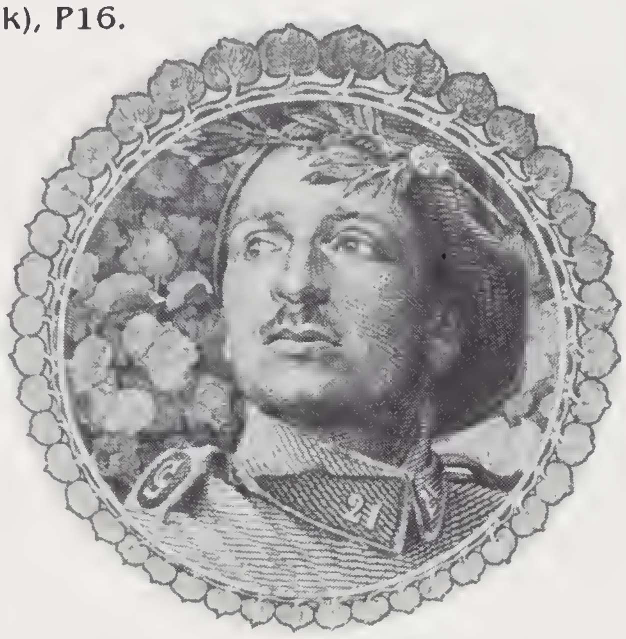
Bulgaria
Ploughman, 100 leva, P41.
Canada
Bog, W.A., $5-$100, PS553-557.
Bog, W.A. (eng. with W. Jung), $5, PS558.
Carlisle, C.H. (eng. with R. Savage), $5, PS1035 & $10, PS1036.
Connaught, Duke and Duchess of, $2, P31.
Cows, $10, PS658.

Canada
Dodds, Jackson (eng. R. Savage altered by E. Gunn), $5, PS561.
Elizabeth, Princess, $20, P46 & P47.
Female with Shield (eng. at ContBNCo, altered at ABNCo by E.Gunn and C. Skinner), $50, PS464.
George V, King, $25, P48 & P49.
Gordon, Sir Charles, $5, PS553 & $100, PS557.
History (two women), $25, PS468.
Laurier, Sir Wilfred, $1,000, P56.
MacPherson, Sir William, $10 PS1234, PS1239 & PS1241.
Moore, S.J., $5, PS622.
Patterson, H.F., Nova Scotia $5, PS632.
Ralph, F.A., $5-$20, PS1145B-D.
Spinney, G.W., (finished by W. Ford) $10, PS562 & $20, PS563.
Taylor, Sir Frederick William, $5, PS543 & $10, PS544.
Train, $5, P30.
Train (eng. with H.P. Dawson), $20, P1380.
Trolley, $20, PS1199.
China
Buildings & Trains (eng. with C. Dawson), $1, P30.
Chinese Govt. Post Office (eng. with L. Delnoce, II), $5, P129 & $10, P130.
Temple (eng. with H.P. Dawson), $50 (back), P32A.
Colombia
Arms of Colombia (eng. with W. Ford), 1-500 pesos, P361-367.
Cordoba, 5 pesos, P323.
Costa Rica
Gonzales, A., 5 colones, P168.
Liberty (finished by R. Savage), 1-100 colones (backs), P158-164.

Foreign Bank Notes
(continued)

Czechoslovakia

Allegory (art by A. Foringer), 5,000 korun (back), P16.



Legionaire, 500 korun, P19 & P22.

Ecuador

Davalos, Gil R., 1 sucre, PS101.

de Mercadillo, A., 5 sucres, PS103.

Greece

Peace, 500 drachmai, P68.

Urns on Pedestals, 1,000 drachmai (back), P69.

Haiti

Banana Tree (eng. with R. Berry), 1-10 gourdes, P150-153.

Honduras

Commerce, 20 lempiras, PS125.

Protection (art by A. Foringer), 2 lempiras, PS122.

Iran

Pahlevi, M.R., 20 rials, P20; 100 rials, P22; 500 rials, P23.

Luxembourg

Charlotte, Queen (eng. with R. Savage), 100 francs, P39 & P47.

Martinique

Harvest (man, woman & child seated), 1,000 francs, P21.

Mexico

Arms of Banco de Guanejuato, 10, 50, 500 & 1,000 pesos, PS290, PS292, PS294 & PS295.

Arms of Banco de Tabasco, 5 pesos, PS424.

Calendar Stone, 10 pesos (back), PS686.

Cart & Oxen, 5 pesos, PS390.

Cathedral of Puebla, 5 pesos, PS391.

Electricity, 500 pesos, P704.

Female with Shield (originally eng. at ContBNCo, altered at ABNCo by E. Gunn and C. Skinner), 10 pesos, PS372.

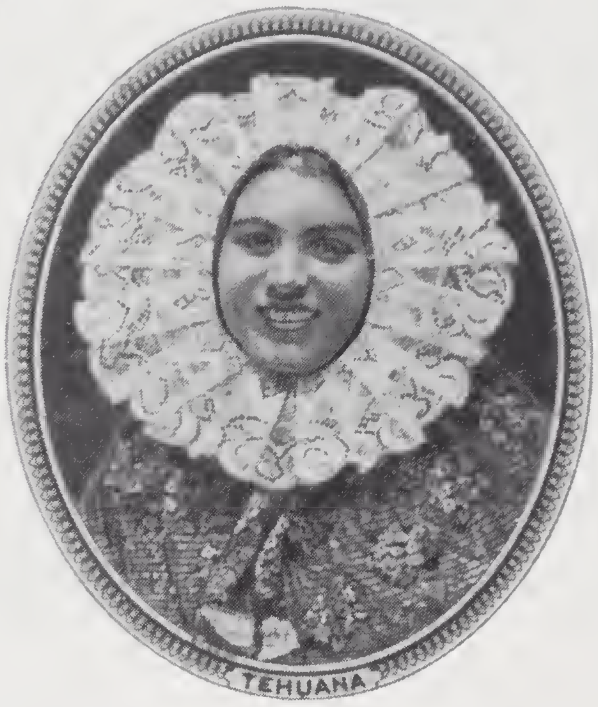
Lion Head, 500 pesos (back), PS350.

Miner Drilling, 5 pesos, PS132.

Morelos, 500 pesos, P720.

Ox Cart, 5 pesos, PS390.

Mexico



Tehuana, 10 pesos, P715-716.

Train Depot, 10 pesos, PS353.

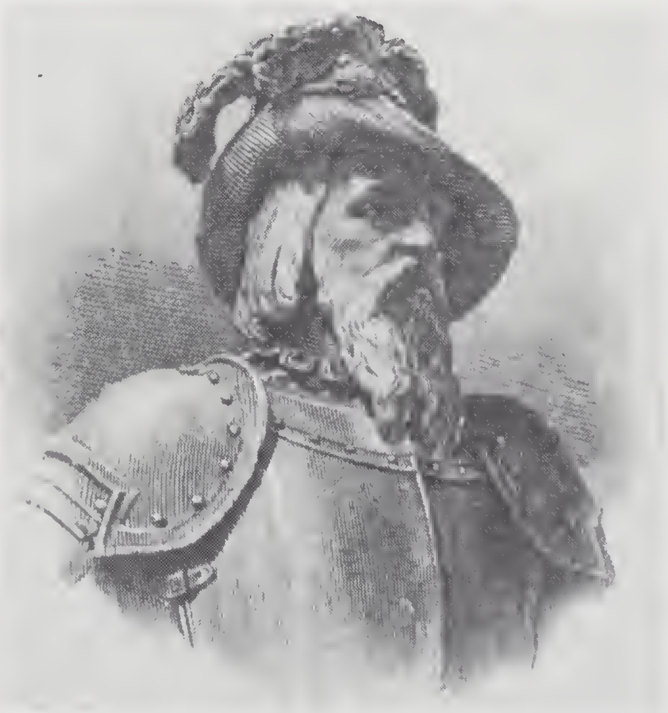
Two Men and Buro (eng. with C. Skinner), 100 pesos, PS324.

Waterfront, 5-100 pesos (backs), PS424-428.

Nicaragua

Fruit (woman kneeling; art by A. Foringer), 100 cordobas P56 & P82.

Puerto Rico



de León, Juan Ponce, $10, P12.

Spain

Zorrilla, José (eng. with E. Loizeaux), 1,000 pesos, P84A.

U.S.S.R.

Female with Shield (see Mexico), 25 rubles, P40 & PS1248.

Protection (art by A. Foringer), 200 rubles, PS882.

Venezuela

Female Leaning on Globe, 100 bolivares, PS243.

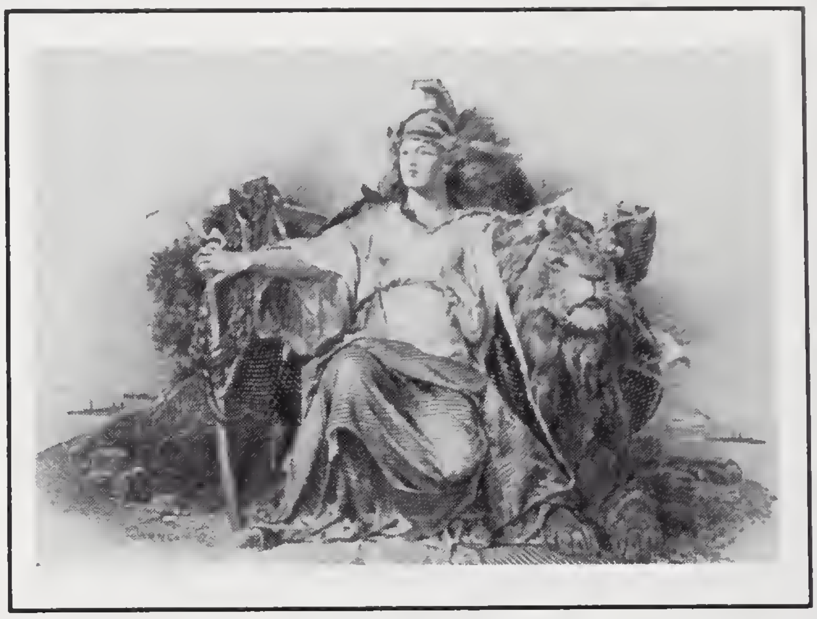
Bonds

Allegory with Lion: Dominion of Canada: General Motors Acceptance Corp. (1927), both cp. bds.
Banana Tree (eng. with R. Berry), Cuyamel Fruit Co. 6%, 1st mort. (1925).
Chinese Insignia, American China Development Co.
Dynamo (small; eng. with G. Hanweber), Manchester Traction Light & Power Co. (1917).
Female and Globe (art by Foringer), IT&T (1925).
Female in Helmet: Power Corp. of NY (1927); Trumbull Steel Co. (1925); Green Mountain Power Co.
Female with Shield (see foreign bank notes, Mexico), Union Pacific RR Co. reg. 1st mort. cp. bd. (1908).
Gathering Sugar Cane: Bargua Sugar Co.; Ermita Sugar Co. (both cp. bds. 1923).
Globe: IT&T; Marshall Field Co., both cp. bds. (1925).
Locomotive, Bangor & Aroostock Road Co. (1901).
Locomotive, Detroit Southern RR Co., OH Southern Div., 5% 1st mort. cp. bd. (1901).
Locomotive, Northern RR Co. of New Jersey.
Locomotive (on coupon), Boston & Albany 3½% refunding bd.
Locomotive (on coupon), Central South Eastern RR Co. 5% (1906).
Man in Storm, AT&T cp. bd. (1923).
Man with Map, AT&T (1925).
Mercury (art by A. Foringer): Fiat (1926); Havana Electric Rwy. (1926); United Airlines (1960); Western Union Telegraph Co. (reg. & cp. 1930).
Poukhurst, Gov., Zacatecas, Rep. Mexicana (1907).
Railroad Depot (eng. with C. Skinner), Atchison, Topeka & Santa Fe Railway Co. E. OK Div. (1903).
Train: Buffalo & Susquehanna RR 4% (1913); Charleston & Western Carolina Rwy Co. 1st consolidated mortgage cp. bd. (1914).

Stock Certificates

Agriculture (art by A. Foringer), Glenmore Distilleries (1946 & 1979).
Agriculture (art by A. Foringer): American Home Products (1926); Northam Warren Corp. (1929).
Agriculture (art by A. Foringer): United Biscuit Co. (1925); Kellog Co. (1925); Continental Baking Company (1939); Stop & Shop (1960).
Allegory with Lion (art by A. Foringer): City Financial Corp. (1927); Rolls Royce of America, Inc.
Allis-Chalmers Plant, interior (1901).
Bananas (eng. with W. Brown, altered by L. Delnoce, Jr.), United Fruit Co. (1920).
Bankers Trust Building, on bank certificate.
Chase National Bank, on bank certificate (1902).
Chemistry: Stauffer Chemical Co. (1953); Colgate-Palmolive Co. (1956).
Electricity (art by A. Foringer): MO Power & Light Co. (1946); NY & Queens Light & Power Co. (1935); PA Power & Light Co. (1927.
Fruit (woman kneeling; art by A. Foringer), United Artists Theatre Circuit, Inc.
Horse, Cart & Man, Indo-Egyptian Compress Co. (1899)
Housatonic Falls (eng. with C. Skinner), CT Power Co. (1906).
Locomotive, Cleveland and Pittsburgh RR Co. special guarantee betterment.
Locomotive, Kansas City Southern Railway Co. preferred bd.
Locomotive, Northern RR Co. of NJ (with "Erie" on tender).
Mercury: AL, Inc. (1983); Consolidated Freightways, Inc. (1980); Kansas City Life Insurance Co. (1965); Madison Square Garden Corp. (1927); Merchant Calculators, Inc. (1950).
Mercury (art by A. Foringer): Madison Square Garden (1927); United Airlines (1936); Crosley Radio Corp. (1929).
Minerva With Lion: City Financial Corp.; Rolls Royce of America, Inc. (illustrated on page 150).
Mining Scene, North Butte Extension Copper Mining Co. (1904).
Quaker Oats Co. Symbol (colonial man), (1901).
Railroad Depot (eng. with C. Skinner), Iowa Central Rwy Co.
Ship, American Fisheries Co.
Spool of Thread, American Thread Co. (1899).
Steamship (eng. with H. Osborn), United Fruit Co. (1916).
Telegraph Instrument, Telephone, Telegraph Cable Co. (1900).
Telephone (and 3 figures; eng. with W. Ford, L. Delnoce, Jr., & W. Adolph): Bell Telephone Co. of PA (1923); Diamond State Telephone Co. (1925).
Textile Industry (art by A. Foringer), Hart, Schaffner & Marx (1934).
Trolley, New York Rwy Co.

Stamps



Minerva with Lion

Chile

First Chilean Congress, 25¢, A17.
Lautaro and Esmeralda, 10¢, A17.

Peru

Caceres, Gen., 20¢, A66.
Galvez, José, 4¢, A54.
Heras (eng. with W. Jung), 10¢, A66.
Pardo, Manuel, 5¢, A54.

Salvador

Arce, M.J., 2¢, A72 & ½¢, A26.

Miscellaneous

Agriculture, Government of the French Republic External Loan of 1924, cp. bd.
Arms of South Dakota (1900).
Canoe and Village, S.M. Damon letterhead.
Harding, W.G. (eng. with M.W. Baldwin & W. Ford), Republican National Convention ticket (1924).
Lion Head (1901), Manhattan Trust Co. (1897).
Manhattan Trust Co. (Federal Hall in background), use uncertain.
Telegraph Instrument and Electric Light Bulb, Telephone, Telegraph Cable Co., for letterhead, perhaps.
U.S. Filtration Plant (1899).

GUNN, Joseph M. *PtEng.* b. Philadelphia, PA 14 July 1924. He was educated in Philadelphia including art studies at the Pennsylvania Academy of Fine Arts. Gunn served his apprenticeship under Edward Grove at Security BNCo. He engraved at the E.A. Wright Co. and the United States BNCo between 1949 and 1975. In 1975 Gunn joined Jeffries BNCo. He is not related to E.H. Gunn.

GURLEY, Royal. *Eng.* d. 1840. He was affiliated with Burton, Gurley & Edmonds in 1837 and Burton & Gurley 1838-1839.

GUY, Kenneth. *PEng & PtEng.* b. Brooklyn NY 5 July 1926. He joined American BNCo on 13 September 1943, one year before he graduated from Theodore Roosevelt (Evening) High School. After duty with the U.S. Army in Germany, Mr. Guy returned to ABNCo in Jan. 1946. His art studies included three years of antique drawing at the Mechanics Institute, and life drawing at the Art Career School. He retired from ABNCo in July 1986 as one of the best 20th century engravers. Mr. Guy's engraved portrait of Mary Kay, for her company stock certificate, is an exquisite example of the engraver's art. Of the 55 pieces of art R. Lavin did for ABNCo, Mr. Guy engraved 17 or more.

Foreign Bank Notes

Bolivia

Avaroa, 500 pesos bol, P165.

Brazil

Dumont, Santos, 5,000 cruz., P182A.

Colombia

Palacio de Nariño, 1,000 pesos, P421.

Costa Rica

Brenes, R. Facio, 10 colones, P240.

Costa Rica

MANUEL MARIA DE PERALTA Y ALFARO

de Peralta y Alfaro, M.M., 50 col., P237.

Ecuador

Arms of Ecuador, 5-100 sucres, P108-112.

Monumento a los Proceres del 9 Octubre de 1820, 50 sucres (back), P104.

Ghana

Loggers, 5 cedis (back), P19.

Haiti

Duvalier, J-C., 10 gourdes, P242.

Libya

Camels (2), 5 dinars, P45.

Peru

Bolognesi, Col., 5,000 soles, P123; 1,000 soles (back), P121.

Fishermen (3), 1,000 soles (back), P122.

South Vietnam

South Vietnam National Bank, 200 dong, P9.

Venezuela

Monument, 20 bolivares (back), P53.

Sucre, Antonio José, 10 bolivares, P57.

Corporate Bonds

Map of Baltimore County (with 9 small subjects), Baltimore County, MD.
Stone Mountain Memorial, Southern States T&T.
Young Lady at Pay Telephone, AT&T.

Stock Certificates

(unless noted, art by R. Lavin).

American Information Technologies Corp. Symbol (unknown artist, 1983).
Astronaut (space walking), Kodak.
Boston Light House (unknown artist), Bank of New England (1982).
Chemist (trees in background; unknown artist), Georgia Pacific Corp.
Dow, Herbert H. (building eng. W. Hauck; unknown artist), Dow Corp.
Electronics No. 1 (J.F. Carlson artist), IT&T Corp.
Energy (man inside spheres; unknown artist), Exxon Corp.
Euclid, Corrections Corporation of America.
Federal Home Loan Mortgage Corp. Symbol, (unknown artist, 1984).
Female (arms extended): Chubb Corp.; Wabash, Inc.
Female (P. Calle artist), Gottschalles Inc.
Female, Park Electrochemical.
Female (floating; globe and rainbow), Kodak.
Female (left leg extended), Big Bear, Inc.

Stock Certificates

(continued)

Female (with atoms), Wyley Corp.
Female and Globe (art by Crosman), Orange & Rockland Utilities.
Female with Globe, Echlin Manufacturing Co.
Fleet Financial Group Symbol, (1983).
Industry (4 figures), Electronic Data Systems.
Key to the Universe: EMC Corp.; Gerber Scientific; Pengo Industries, Inc.
Male Figures (3), Michigan General Corp.
Male Figures (3), Union Pacific Corp.
Male Figures (2) *and Globe* (eng. with J. Kisely), Norton Co.
Male Figures (2) *and Globe* (unknown artist), Geosource (1976).
Man with Bare Chest, OKC Corp.
Man and Woman, MONY Mortgage Investors; Circus Circus Enterprises.
Man Reclining (arm extended; buildings & sun rays; unknown artist), Matsushita Electronics.
Man Seated on Tubes, Globe at Right, Tubos de Acero de Mexico.
Man, Truck and Locomotive (unknown artist), Santa Fe Inc.
Man, Woman and Globe, Hartmarx Corp.
Man, Woman, Globe and Refinery (unknown artist), Texaco.
Mary Kay; Mary Kay Cosmetics.
Men (2) *and Seated Woman*, Allegheny Ludlum Corp.
Men (3) *and Woman* (unknown artist), Northwest Industries Inc.
Men and Women, Mountain States T&T.
Men (3), (industrial scene), Bethlehem Steel.
Mercury in Space, Gulf & Western Industries.
Montage (oil production; unknown artist), Tidewater Oil Co.
Morton Salt Seal (unknown artist), Morton Salt Co. (1961).
Noyes, John H. (and home; unknown artist), Oneida Ltd.
Prometheus, Rockefeller Center Properties (1985).
Protection for the Family (boy, woman & man profiles; unknown artist), Provident Life & Accident Insurance Co.
Purolator Symbol (art by Crosman), Purolator Inc.
Sahlm, Mrs. Roland (wife of company C.E.O.; from photograph), Elixer Corp.
Sailor & Seated Woman (unknown artist), Insurance Co. of N. America.
Sears, Richard W. (unknown artist), Sears.
Strip Mine (man at left eng. J. Poveromo, background by K. Guy, man at right by J. Wallace; unknown artist), Kennecott Copper Corp.
Surveyor, CSX Corp. (1980 & 1987).
U.S. West, Inc. Symbol (man and woman), (1983).

Registered Instrument

Males (3) *and Female*, Bank of America (1978).
Males (2) *and Globe*, Geosource (1982).
Sears Building (eng with W. Hauck), Sears (1975).

Stamps

Haiti
Palais de Postes, 25¢, E1 (SD1).
Panama
World Cathedrals: Germany 21¢, C304; Hungary 21¢, C307; Mexico C310; Netherlands 21¢, C311; Italy 2 balboas, C321; Russia 21¢, C315.

Philippines
City Seal, 5¢, 6¢ & 18¢, A103-106.
Nolime Tangere 18 + 7¢, B3 (P3).

United States
FIPEX Seal (1956).

U.S. Postal Panels.

Female Running (1979).
Flag and Rocket.
Jai-alai Player.
Liberty Bell (1976).
Madonna and Child (1975).
Man & Torch (1979).
New Spirit of '76 (art by R. Lavin, 1976).
Men (3), Gear and Wheel (art by R. Lavin, 1975).
Postman (1974).
Roosevelt, F.D. (1982).
Torch (eng. with W. Hauck) (1979).
Winter Scene (art by H.L. Peckmore) (1978 & 1979).

Miscellaneous

American Bank Note Co. Building (77 mm high) on company letterhead (eng. with W.F. Ford).
America 1776-1976 (R. Lavin artist), in *ABNCo Annual Report*, 1974, and in the collector edition of Hessler (1988).
Cook, Thomas, Thomas Cook traveler's checks.
de Giralt, Ramon P., Puerto Rico savings bond (1976).
Men (2) on Horseback, Republic of TX traveler's checks (1978).
Mercury, Citicorp traveler's checks.
Story of American Bank Note Co.: Dwight D. Eisenhower and Pennsylvania RR Horseshoe Turn.

American Bank Note Co. engravers left to right, standing: Kenneth Guy, Warrell Hauck, Edwin Cranz and Jerry Kisely; kneeling: Richard Baratz and Kenneth Kipperman.

H

H., _____. *Trans.* (see Amendt.)

HAAS BANK NOTE ENGRAVING CO. This New York company engraved the 1911 postage stamps A15 (1¢-1 peso) for Honduras.

HAAS, E.M. *LtEng.* He was employed at the Bureau of Engraving and Printing during the early 20th century.

HAAS, Paul. *LtEng & PEng.* This name appears in the records of the Republic BNCo. He also worked for American BNCo.

HADLEY, H.H. This name appears as part of an 1876 copyright, below an engraving of a *Female,* (seated), *Leaning on Bale.* The engraving appears on a $100 deed of trust note issued by the Real Estate Loan and Trust Co. of Washington, DC in 1877. The note was prepared by the Excelsior Bank Note Co.

HAGEN, _____. *PEng.* He was employed at Quayle & Son.

HAGGERTY, James J. *ScrpEng.* He began his apprenticeship at American BNCo on 21 Jan. 1927. He resigned and was later rehired in 1929. Due to a lack of work he was let go on 24 June 1932.

HAKES, Robert. He began his employment in the Transfer Division of American BNCo in May 1905 as a die and plate finisher. Mr. Hakes was considered an excellent craftsman.

HALBERT, August. *OrEng & PtEng.* He was a student of his famous uncle, J.F.B. Prud'homme. In 1823 he was in New York City. The following year he was engraving for Harper Bros.; in 1838 he was employed at Rawdon, Wright & Hatch. By 1859 Halbert was with American BNCo. The seated *Vulcan* and the *Washington* portrait on the American Mining Co. stock certificate (28 Mar. 1850) bears "A. Halbert, SC(ulpt)."

HALL, Alvin W. b. Hazleton, PA 23 Aug. 1888. He served as the Director of the Bureau of Engraving and Printing from 22 Dec. 1924 to 15 Dec. 1954. (See *The EPJ* Jan. 1940.)

HALL, Charles A. This son of Peter Hall was employed at the Bureau of Engraving and Printing.

HALL, David. *Pr.* b. Scotland ca. 1714, d. Philadelphia 24 Dec. 1772. After his apprenticeship in Edinburgh he travelled to London and worked as a printer. By 1748 he was in Philadelphia where he formed a partnership with Benjamin Franklin until 1766. Franklin & Hall was succeeded by Hall & (William) Sellers. If not for their partnership, Hall would have rivaled Franklin. (See Hall & Sellers.)

HALL, Edward McClellan. *ScrpEng.* b. Beltsville, MD 16 Sept. 1862, d. 23 Dec. 1939. He went to the Bureau of Engraving and Printing in 1879 where he engraved over 175 postage stamps. Hall died at 77 as an employee with 61 years experience at the BEP. He received a two-year and later a lifetime exemption from compulsory retirement at age 70. Hall is one of eight engravers who executed the ornamentation on the 1935, $1 silver certificate.

Members of the Engraving Division at Hamilton Bank Note Co. about 1913.

Members of the Engraving Division at Homer Lee Bank Note Co. Standing, left to right: Jack Allen, C.W. Wittenauer, John O'Brien, Frank Tyler, Cyril Harrison, John Fisher, Capt. Kittle, S.E. Muir, Rem Meeker, L.E. Warren, Cy Tichenor, Jack White, and L. E. Rowden. Seated, left to right: T. Wright, William Oliver, J.D. Messner (mgr. & treas.), H.S. Beckwith and David Harrison (foreman).

Members of the Engraving Division at the International Bank Note Co. in 1891. James MacDonough, fourth from the left, stands nearest the portrait of Louis Delnoce.

HALL, George R. b. London, England 1818, d. 1858. He studied with his brother, Henry B. Hall. He engraved in England and Germany before coming to New York City in 1854 where he engraved for Rawdon, Wright & Hatch and New York publishing houses.

HALL, Louis A. *ScrpEng.* He was working at the Bureau of Engraving and Printing about 1915.

HALL, Peter. *ScrpEng & LtEng.* b. Birmingham, England 1828, d. Brooklyn, NY 5 July 1895. Following engraving work in Birmingham, England he came to New York City and engraved for Rawdon, Wright, Hatch & Edson from 1854 to 1859. Hall then moved to American BNCo. In 1878 he was the Superintendent of the Engraving Division at the Continental BNCo. During 1880 and 1881 he engraved independently. Charles Ernest Kihn joined Hall in a partnership.

HALL, W.H. He was employed at the Bureau of Engraving and Printing in 1890.

HALL & SELLERS. This firm operated by David Hall and William Sellers printed bills dated 1775, 1776 & 1778 for the Continental Congress; Maryland (1780); New York (1780); Pennsylvania (1767-1776); Rhode Island (1780); and Virginia (1780).

HALPIN, Frederick W. *PtEng.* b. Worcester, England 1805, d. Jersey City, NJ Feb. 1880. In England he was a decorator and molder in the pottery trade. He came to New York City in 1842 and worked with Alfred Jones and did illustrations for New York publishing houses. From 1857 to 1862 Halpin engraved for Cincinnati publishers. The following year he moved to Charleston, SC to engrave for Keatinge & Ball. He soon joined Archer & Daly in Richmond, VA. Both firms produced security paper for the Confederacy. Halpin returned to NYC in 1865.

Confederate States of America

50¢ bank note, 1864, P64.	*Jackson, Andrew*, 2¢ stamp, A5.
Davis, Jefferson, 10¢ stamp, A8.	*Washington, George*, 20¢ stamp, A9.

HAMILTON BNCo. was founded in New York City in 1880; incorporation took place in 1884. They were located at 1 Broadway. HBNCo was a selling agent for the Hamilton Bank Note Engraving and Printing Co. (HBNEPCo), incorporated in 1885. HBNCo prepared notes for Nicaragua, P42-69, and Panama, P22-25. Between 1890-1910, HBNEPCo was located

Hamilton Bank Note
Company
61 Broadway,
Offices 59 to 69.
New York.
Alex Robt Chisolm.
Geo W Thurber.
Lee R Shryock.
Albert D Wagner.
Augustine L Helm.

at 90 Gold St. On 4 January 1918 HBNEPCo filed for bankruptcy and went into receivership; HBNCo was dissolved. Thomas De La Rue acquired a substantial minority interest in HBNEPCo in May 1946. HBNEPCo was liquidated in 1948; Security BNCo in Philadelphia acquired the company's engraved plates.

HAMILTON, Ed. *Prv.* He was employed at American BNCo in 1862.

HAMILTON, William. *Eng.* He engraved bank notes for Rhode Island banks.

HAMLIN, William. *Eng.* b. Providence, RI 15 Oct. 1772, d. ca. 22 Nov. 1869. This metalsmith and printer engraved and printed notes for Rhode Island banks until 1795. The small wooden press used to print these notes is at the Rhode Island Historical Society. In 1809 Hamlin made nautical instruments with his son. He was a self-taught engraver who made his own tools. At the age of 91 he engraved a portrait of George Washington.

HAMMOND, J.T. b. NYC ca. 1820. He was working in Philadelphia in 1839. In the following year Hammond joined W. Woodruff in Cincinnati. By 1852 and until 1860 he was in New Orleans; in 1856-1857 with Childs & Hammond.

HANCOCK,_____. *Art.* This artist is credited with *The Watch Dog*, engraved for American BNCo by Henry Beckwith. This vignette can be seen on Argentina ½ real, PS1496; State of Tennessee $10; and Uruguay 1 peso, PS373.

HANKS, Frederick. *Eng.* Between 1844-1846 he was working with David R. Harrison.

HANKS, Owen G. *Eng.* b. ca. 1816, d. 1865. He is first listed in a New York City Directory in 1838. He founded Wellstood, Benson & Hanks (1848-1855). Hanks probably engraved independently until 1859 when he joined American BNCo.

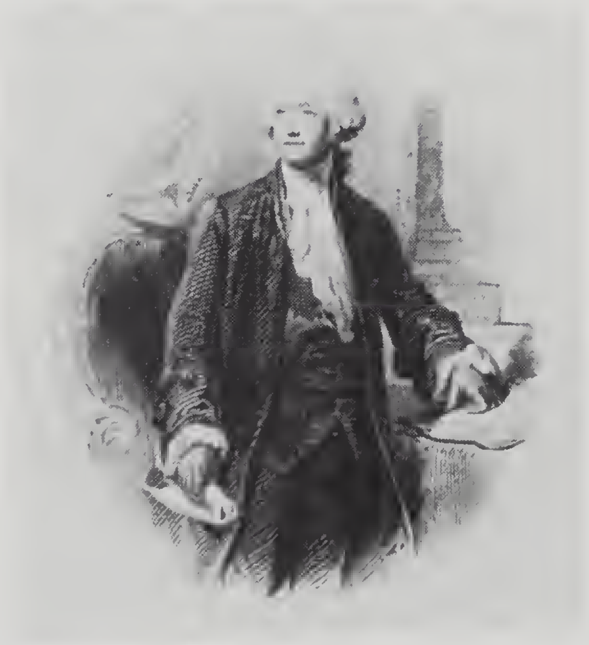
United States Federal Bank Notes

Freedom, $5 DN, H242, and $5 USN, H243-244b.

Hamilton, Alexander, $500 IBTN, H1346-1349.

Lansdowne Portrait of Washington, $100 CITN, H1137-1139a, and $100 IBTN, H1140-1140b.

Washington, George, $500 IBTN, H1346-1349.



United States Obsolete Bank Notes

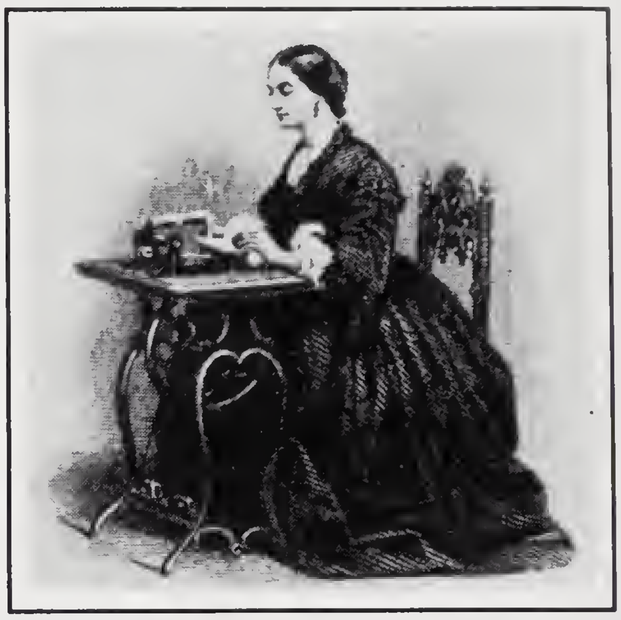
Arms of New Jersey, State Bank of New Brunswick, NJ $1.
Buffalo Hunt, IL River Bank, Hardin, IL $1.
Crocker, A., Rollstone Bank, Fitchburg, MA $100.
Freedom: Farmers and Mechanics Bank of Savannah, GA $5; Bank of Giles in Pearsburg, VA $5; Harrisburg Bank of PA $5.
Indian Girl (eng. with W. Shirlaw), Egg Harbor Bank, NJ $1.
Killing Hogs (art by F.W. Edmonds), Citizens Bank of (New Orleans) Louisiana, $100.
Manufacture or *Spinner Wheel* (art by C. Schussele), Traders Bank, Richmond, VA $20.
Merchant and Newsboy (art by F.W. Edmonds), Eastern Bank of AL $1.
Ploughman Drinking (art by F.O.C. Darley), State Bank of IL $5.

United States Obsolete Bank Notes

(continued)

Saying Goodbye (art by F.O.C. Darley): Planters Bank of the State of GA, Savannah $1; City Bank of Providence, RI $50; Bank of Richmond, VA $100.

Sewing Girl (art by F.W. Edmonds): Dedham Bank, Danvers, MA $20; North Berwick Bank, ME $1; Marblehead Bank, MA $2; Bank of Ocean City, Tom's River, NJ $1; Setauket Bank, NY $2.



Foreign Bank Notes

Canada

Arms of Nova Scotia (art by T.A. Liebler), $10, PS623.

Loggers (art by H.W. Herrick), $5, PS641.

Colombia

Manufacture or *Spinner Wheel* (art by C. Schussele), 5 pesos, PS819.

Dominican Republic

Two Sailors at Work (with T. House; art by F.O.C. Darley), 5 pesos, PS105.

Ecuador

Freedom, 10 pesos, PS115.

Justice (art by T.A. Liebler), 100 pesos, PS245.

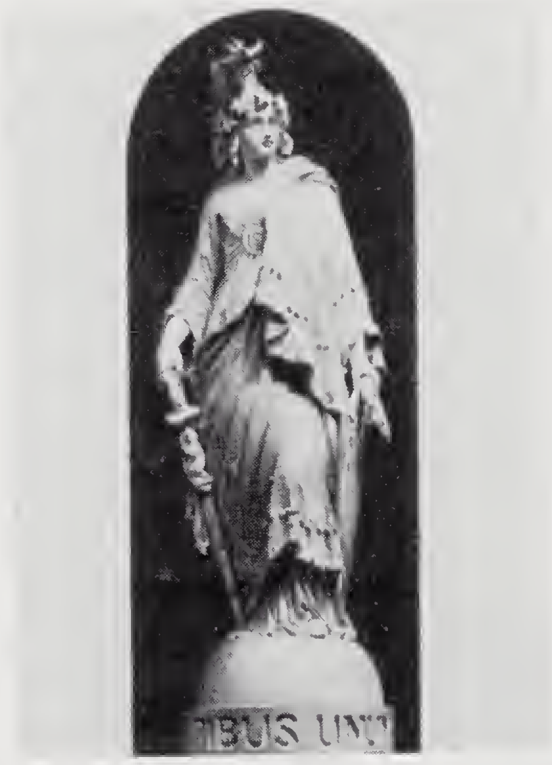
Mexico

Girl & Calf (art by H.W. Herrick), 50 pesos, PS478.

Indian Girl (eng. with W. Shirlaw), 20 pesos, PS129.

Uruguay

Freedom, 2 pesos, PS354.



Miscellaneous

Arms of Russia (20 mm), use uncertain.

Autumn Fruit (woman seated): Atchison, Topeka & Santa Fe Rwy. (1880); Rome, Watertown & Ogdensburgh RR (1883) stock certificates.

Loggers (art by Herrick), St. Paul RR Co. bd. (1881).

Man and Barrels (art by Herrick), Stage & Cooperage Co. (1894) stock certificate.

Nail Making (art by Liebler), Fairhaven NB (1882) stock certificate.

HANSEN, Earl. *Des.* d. ca. 1982. He was employed at American BNCo as late as 1951.

HAN(N)WEBER, George. *PEng.* He was employed at American BNCo as late as 1911.

Foreign Bank Notes

El Salvador

Arms of Salvador (eng. with W. Brown), 50 & 100 pesos (backs), PS106 & PS107.

China

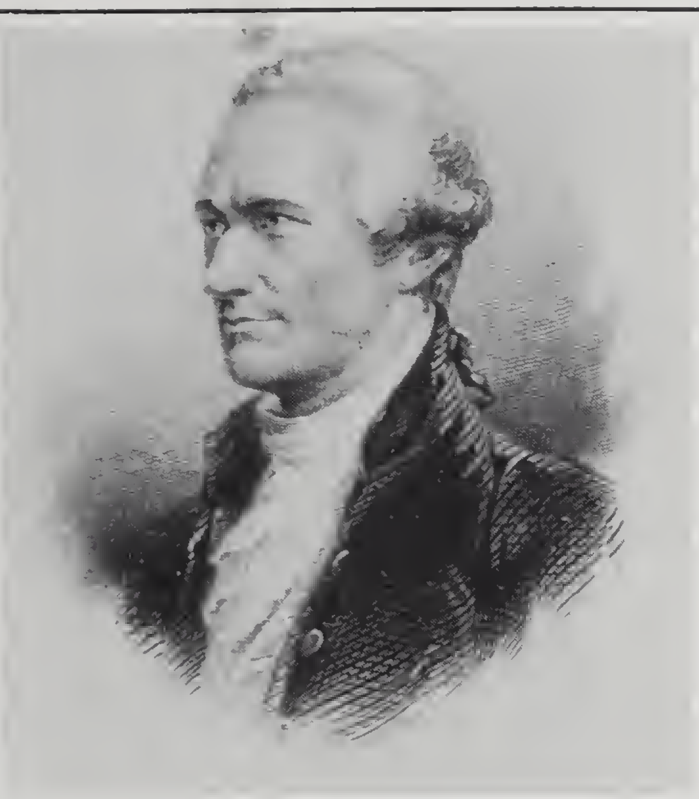
Train, 50 kopecks, PS473.

Corporate Bonds

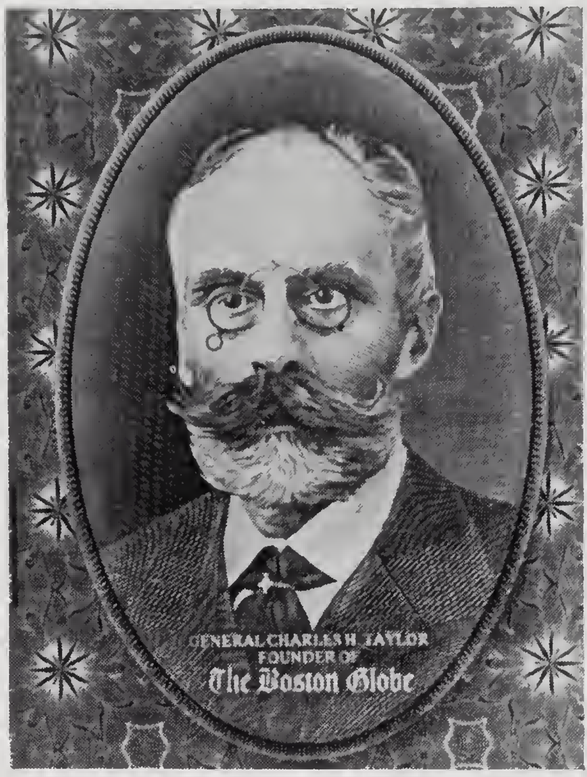
Dynamo (small; eng. with E. Gunn), Manchester Traction Light & Power Co. (1917).

Mining Scenes (small, for coupons; eng. with C. Skinner): Kennecott Copper Corporation; Phelps Dodge Corp. (1937).

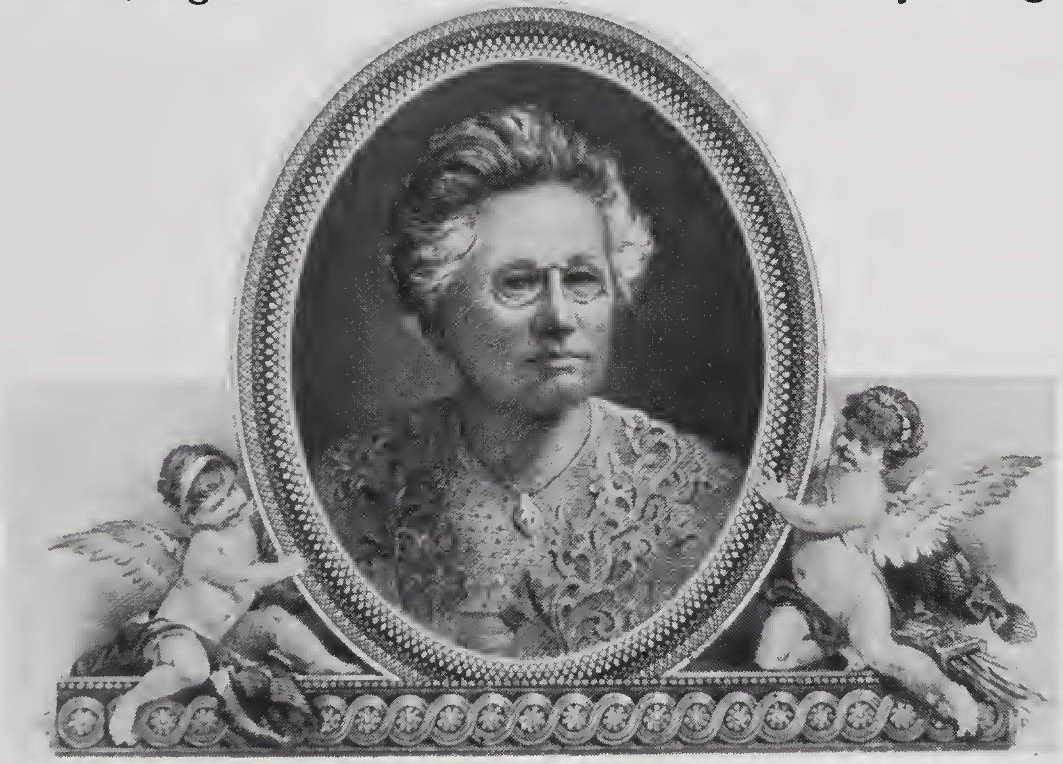
Trains (3), Florida East Coast Rwy. Equipment Trust (cp. bd., 1923).



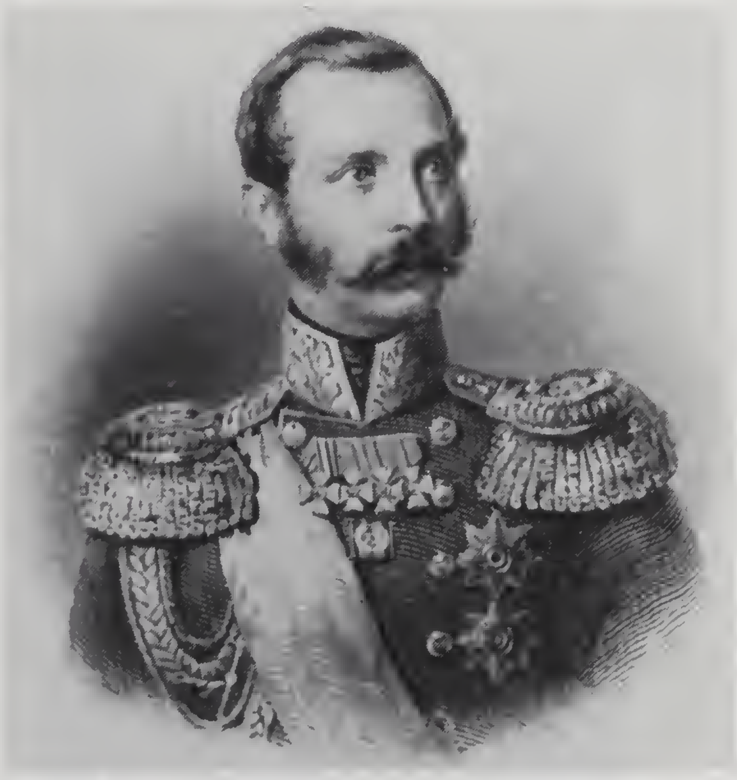
Alexander Hamilton, eng. O.G. Hanks.



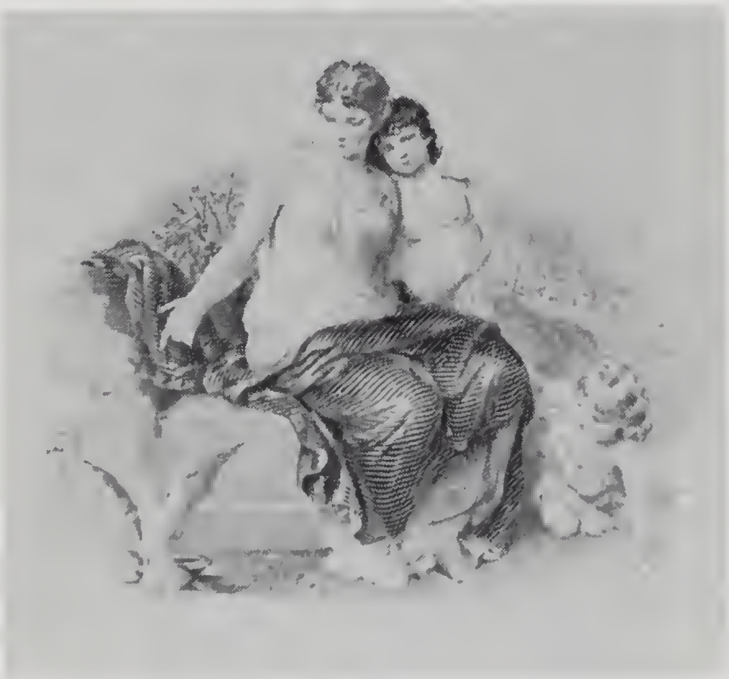
C.H. Taylor, eng. J. Kisely.



Fanny Farmer, eng. John Hay, see stock certificates.



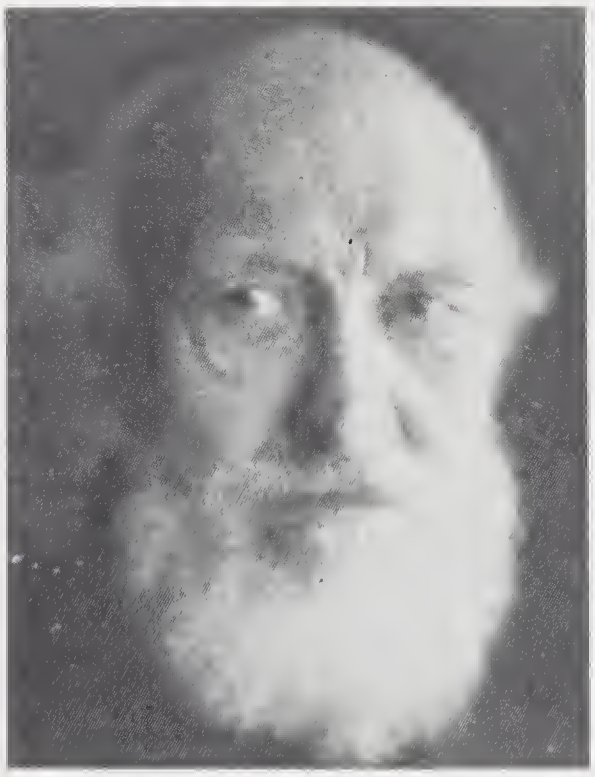
Alexander II, Czar of Russia, eng. Alfred Jones, use uncertain.



Peace, eng. Alfred Jones, Mexico 5 pesos, PS233.

George W. Hatch

Lorenzo J. Hatch


Augustine L. Helm

Charles Harrison

John R. Hill

Louis A. Hill

HARRISON, Charles. *LtEng.* b. 1813, d. 1905. He was in NYC in 1838 and was working with Draper, Toppan & Co. in 1840 and 1841. In 1849, with his brother David R. Harrison, he was engraving for Wellstood, Benson & Hanks. From 1855 to 1858 Harrison was affiliated with Danforth, Wright & Co.; in 1859 with Alfred Jones. He joined American BNCo in 1860 and was there as late as 1900. He is the son of William Harrison, Jr.

HARRISON, Charles Peter. *Art, Eng & Pr.* b. London, England 1783, d. NYC 27 Nov. 1854. He was, as were his brothers, taught engraving by his father, William, Sr. Charles P. Harrison was considered the most gifted in the family. He was listed in the Philadelphia Directory in 1806. In 1818 he formed a business with his brother-in-law, James Porter, with whom he also studied engraving. From Philadelphia he moved to NYC in 1824 where he worked as an engraver and copperplate printer until his death. The imprint of C.P. Harrison appears on numerous bank notes including those of the Bank of North America ca. 1835.

HARRISON, Cyril. *LEng.* He was employed at the Homer Lee BNCo ca. 1890.

HARRISON, David Richardson. *LtEng & ScrpEng.* b. 23 Feb. 1801, d. NYC 23 Mar. 1886; he is buried in St. Raymond's Cemetery. After work with his father, William, Jr., he moved to NYC. In 1848 he was with Wellstood, Benson & Hanks and with Baldwin, Bald & Cousland and its successor 1855-1858, then he joined American BNCo where he remained until his death.

HARRISON, Milton F. b. ca. 1840, d. ca. 1895. He was a burnisher with ABNCo in 1887.

HARRISON, Richard Granville. *Eng.* b. London, England 1793, d. 1870. He first learned engraving from his father, William, Sr., as did his three brothers. In 1794 this engraver came to Philadelphia with his family. When he was ten years of age his father died; his older brothers completed engraving instructions. Between 1815 & 1817 the name of Richard Granville Harrison appears on notes including the $3 Westmoreland Bank of Pennsylvania. Missouri Loan Office Certificates of 1821 and some emergency scrip notes used during the Panic of 1837 were engraved by R.G. Harrison. Some of these notes, with typeset denominations and the names of issuer inserted, were printed by E. Morris. Harrison used various signature forms on his work; this has led to some confusion in identification.

HARRISON, Thomas Foster. *Eng.* d. Cincinnati, OH 1870. From 1838 to 1841 this second son of William, Jr. and his brother William F. worked in New York City; during 1839-1840 with Draper, Toppan & Co. In 1843 they were working in Cincinnati at the address of Rawdon, Wright & Hatch. In 1860 T.F. Harrison was still in that city working at 4th & Main Streets., the address of American BNCo.

HARRISON, William, Jr. *Eng.* b. England 1780, d. ca. 1845. He arrived in the U.S. with his family in 1794. He worked with his father and also, from 1798-1800, with James Aiken; he remained in Philadelphia until Sept. 1819. Before his father's death in 1803, he always signed his work as William, Jr.; afterward he discontinued the "Jr." Unless a date is in evidence, the work of the young Harrison and his father, who did not always use "Sr.", can be confused. The bank notes of the Trenton Banking Co., engraved in 1805, are probably the first by Harrison Jr. Other bank notes that have his imprint are the Farmers & Mechanics Bank of Laurel, DE; the Bank of Delaware, in Wilmington; the Merchants Bank of Alexandria, DC; and the Union Bank of Georgetown, DC.

HARRISON, William, Sr. *Eng.* b. England ca. 1750, d. Philadelphia 18 Oct. 1803. During the decade that followed 1780 he engraved maps for the British E. India Co.; prior to this time he was engaged by the Bank of England. In England and in the U.S. this artist engraved a variety of subjects other than bank notes, maps and book illustrations. John "Longitude" Harrison, inventor of the chronometer, was considered to be William's grandfather. In 1792, William Harrison, Sr., who learned his craft in London, came to Philadelphia to engrave plates for the Bank of North America and the Bank of the United States. After six months he returned to London; in 1794 he brought his family to Philadelphia. In that same year Harrison engraved bank note plates for the Bank of Pennsylvania.

HARRISON, William F. *LtEng.* b. PA ca. 1912. From 1831 to 1840 he was in New York City engraving for bank note companies.

HARTFORD GRAPHIC CO. This company was established in 1791, possibly by Abner Reed. Moseley Isaac Danforth began his apprenticeship there in 1818; he left in 1821 to engrave independently. In 1817 Nathaniel Jocelyn engraved for this company.

HARTMAN, T. He was in the General Engraving Division of American BNCo in 1911.

HARTRATH, M. *Eng.* d. 1916. He was employed at the Western BNCo ca. 1871.

HASTRY, Edwin L. *Des.* He was employed at Hamilton BNCo in the 1930s.

HATCH, George Whitfield. *Des & PEng.* b. Johnstown, NY 27 Apr. 1804, d. Dobbs Ferry, NY 13 Feb. 1866. A student of Asher B. Durand, he was one of the first to enter the National Academy of Design in 1826. About 1827 he was engraving in Albany and soon thereafter in NYC. Some of the firms he was affiliated with include A.B. & C. Durand; Wright & Co. (1827 & 1828); Durand, Perkins & Co. (1829); Hatch & Smillie (1831); Rawdon, Wright & Hatch and their successors (1832-1858); and American BNCo. George W. Hatch was President of ABNCo (1863-1866). G.W. Hatch could have also engraved the following art work attributed to him.

Bank Notes & Bonds

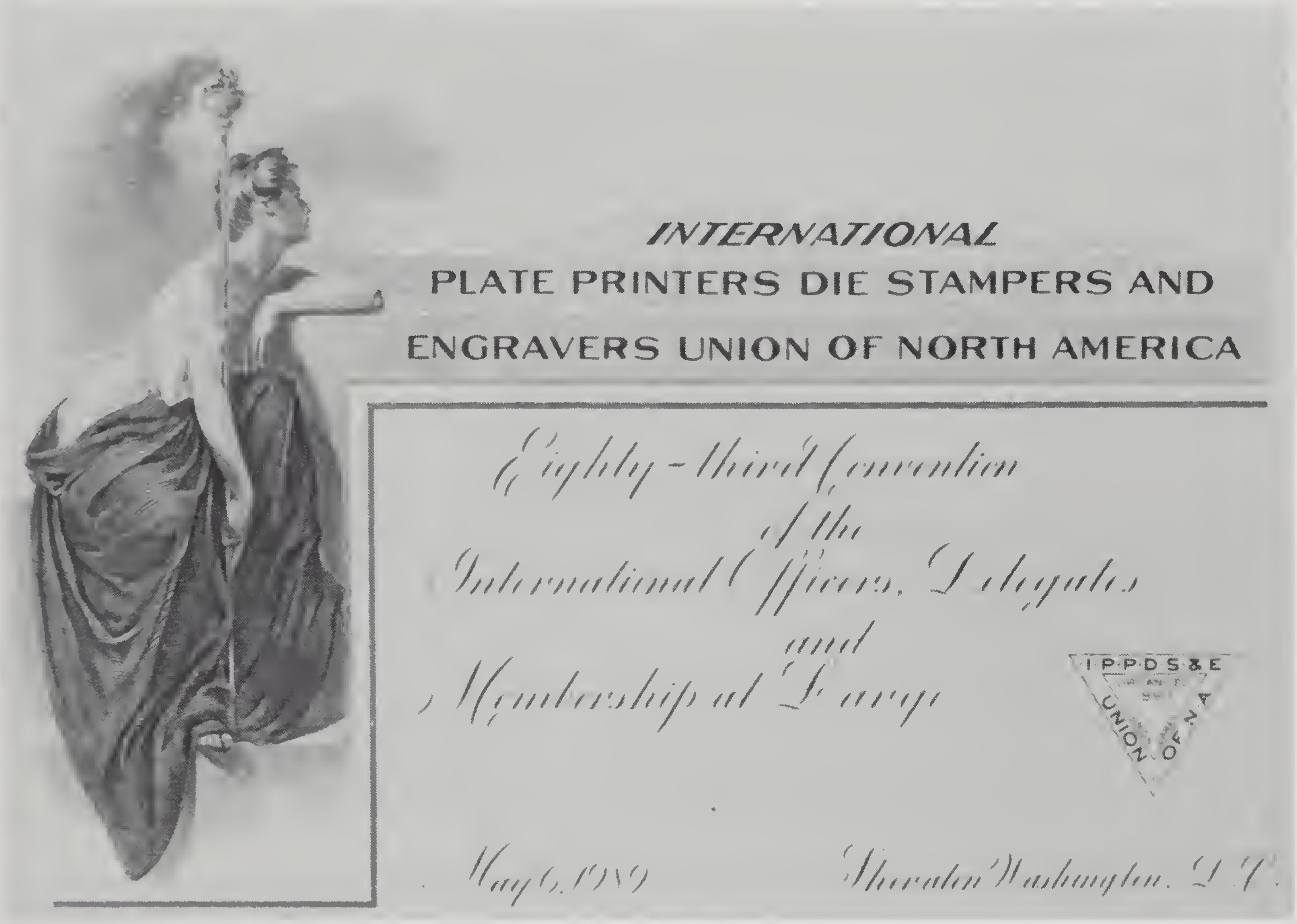
Arms of New Jersey (art by G.W. Hatch), State Bank of New Brunswick, NJ $500.
Farmer with Scythe (art by G.W. Hatch), Morris County Bank, Morristown, NJ $2.
Female Seated, Ship in Background, New York State Bank $20.
Harvest Lunch (art by G.W. Hatch), Bank of Macomb County, Mt. Clemens, MI $5.
Justice (art by G.W. Hatch), Union Bank, Providence, RI $1.
Mercury (art and eng. by G.W. Hatch): $50, $100, $500 & $1,000, HX114A, B, C & D; $50 & $100, HX126A&B.
Mercury and Woman with Caduceus (art by G.W. Hatch), Bank of Upper Canada $20, PS2015.
Thor and E Pluribus Unum (art & eng. by G.W. Hatch): Farmers & Merchants of St. Joseph, MI $20; Chippeway County Bank, Sault De St. Marys, MI $3.
Transportation (eng. by G.W. Hatch), Hawaii $20, P2.
von Steuben, Baron (background eng. by A. Jones), Steuben City Bank, Bath, NY, $1, $2, $5, $10 & $20 by ABNCo.

HATCH, H.L. *PtEng.* He was employed at the Bureau of Engraving and Printing.

HATCH, Justin N. *Eng.* He was at the Bureau Engraving and Printing from June 1870 until 31 Oct. 1874.

HATCH, Lorenzo J. *PEng & PtEng.* b. New England 1856, d. Beijing (Peking) 9 Mar. 1914. At age 14 he was apprenticed to a jeweler in Salem, NY. A copperplate engraving of the head of George Washington — done when Hatch was 16 — came to the attention of George

Engravings by Lorenzo J. Hatch



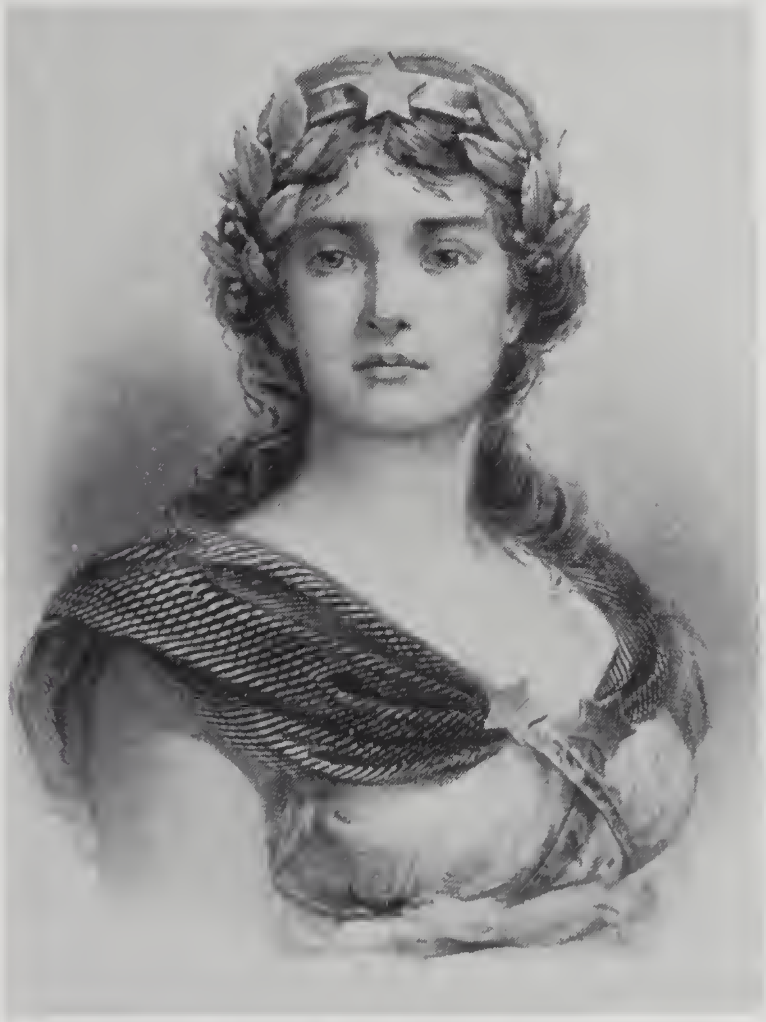
INTERNATIONAL
PLATE PRINTERS DIE STAMPERS AND
ENGRAVERS UNION OF NORTH AMERICA

Eighty-Third Convention
of the
International Officers, Delegates
and
Membership at Large

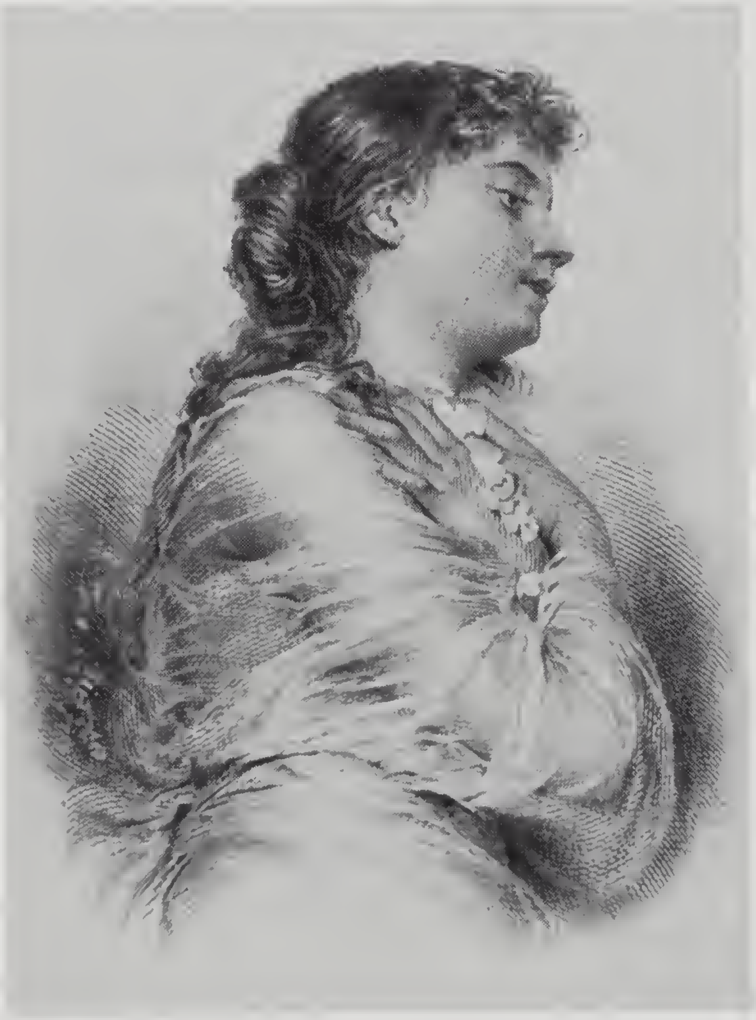
May 6, 1989 Sheraton Washington, D.C.

I.P.P.D.S.&E.
UNION OF N.A.

Female with Torch, also used on the Indiana Natural Gas and Oil Co. bond.



Female with Tiara



Marguerite, use uncertain

B. McCartee, Chief of the U.S. Bureau of Engraving and Printing. Consequently, at age 18, Hatch became the youngest apprentice at the BEP; he continued drawing studies in the evenings. Hatch retired from the BEP on 27 Dec. 1887. In 1888 he joined the Western BNCo, and, after a brief hiatus with the short-lived International BNCo in 1889, Hatch returned to the WestBNCo. "In 1908, representatives of the Chinese government visited him upon the recommendation of the U.S. Treasury with a proposal for the establishment of a Chinese 'Bureau of Engraving and Printing' at Peking" (Jackson, *The EPJ*, 1986, 140). (See William A. Grant.) The Indian profile used on the stationery and the advertising notes of the WestBNCo are the work of Lorenzo Hatch.

United States Federal Bank Notes

Garfield, James, $5 NBN, H287-315.
Grant, Ulysses S., $5: SC, H349-357, and H358-360.
Manning, Daniel, $20 SC, H818-827.
Sheridan, Gen. Philip, $5 (back) SC, H358-360, and $10 TN, H612-617.
Thomas, George H., $5 TN, H373-379.

Miscellaneous

Brunhilda, American National Uncle Tom Opera stock certificate; Union Pacific RR $1,000 reg. 1st mort. 4% gold bond (1900).
Female (art & eng. by L.J. Hatch), People's Gas Light & Coke Co. 5%, reg. gold bd.
Female (seated), Billings & Eastern Montana Power, Madison River Power & Butte Electric & Power Co. $1,000 6% joint mort. bond (1908).
Female (seated) *with Sword and Shield*, Interborough Rapid Transit $10,000 45-year reg. mort. bd.
Female (standing) *with Corn Stalks*: Corn Products Refining Co. $1,000 1st mortgage 5% 25-year gold bond; Missouri Pacific Rwy $1,000 40-year 5% gold loan reg. bd. (1905).
Female with Light Bulb: Chicago Subway $10,000 reg. 1st lien 20-year 5% gold bond; International Traction Co., $10,000 50-year 4% collateral gold bd.
Female with Sheaf of Wheat, Guatemala 1 peso, PS131; Peoples Brewing Co. of Trenton, NJ $1,000 1st mort. bond (1899).
Female with Sword & Female with Wreath, Brazil 50 mil reis, P56.
Female with Tiara, Davenport, Rock Island & Northwestern Rwy $1,000 3½% 1st mort. gold bd. (1900).
Female (seated) *with Torch*, Indiana Natural Gas and Oil Co. $1,000 refunding mort. 5½% gold bond.
Ship (art and eng. by L.J. Hatch), Atlantic, Gulf and West Indies Steamship Lines $1,000 5% collateral trust gold bd. (1908).
The Fast Mail: Chesapeake & Ohio Rwy Co. cp. bd. (1906); Pittsburgh, Cleveland & Toledo RR cp. bond. (1895); St. Paul & Northern Pacific Rwy stock certificate (1892).

HAUCK, George. *LtEng.* He began his apprenticeship at American BNCo on 1 June 1927. George Hauck and his brother Warrell came to New York from Massachusetts.

HAUCK, Warrell. *PEng.* b. ca. 1912 d. 16 Jan. 1983. He began his apprenticeship at American BNCo on 21 March 1927. Hauck was Superintendent of the Engraving Division from Aug. 1956-1980. Mr. Hauck engraved the nude female on the Playboy stock certificate; Bob Lavin was the artist. Of the 55 pieces of art R. Lavin created for ABNCo, Mr. Hauck engraved 14.

Foreign Bank Notes

Brazil
Tiradentes, 5,000 cruzeiros, P174.
Colombia
Salt Cathedral, 500 pesos (back), P411 & P419.

Costa Rica
Brenes, Facio R. (eng. with E. Cranz), 10 colones, P235.
Gutierrez, M.M., 500 colones, P225.
Ecuador
Ruminahui, 1,000 sucres, P120.
El Salvador
Independence Monument, 100 colones, P113.
Guatemala
Ermita del Cerro del Carmen, ½ quetzal, P91.
Vasija de Uaxatun, 5 quetzales, P93, P99A & B.
Haiti
Duvalier, F., 5 gourdes, P202.
Kampuchea (Cambodia)
Females (3), 100 riels (back), P13a.
Venezuela
10 bolivares (back), P31.

Corporate & Municipal Bonds

Female Seated (facing forward; art & eng. by L.J. Hatch), Wabash Pittsburgh Terminal.
Female with Sword & Shield (R. Lavin artist), Barclays North American Capital Corp.
Railroad (art by MacPherson), Canadian-Pacific reg. bd. (1956).

Stock Certificates

(unless noted, art by R. Lavin.)

Chemistry (P. Calle artist), Energy Industries Inc.
Energy (female, arms extended; Crosman artist), Rochester Gas & Electric Corp.
Evaluation (5 human figures), Medtronic, Inc. (1977).
Female (P. Calle artist), Collins Foods International, Inc.
Female, (arms extended), Federal Express Corp.
Female (computation), Comdisco, Inc.

Female Nude, Playboy Enterprises.

Females, Mary Kay Cosmetics, Inc.
Female Standing (with arms extended between globes), Viacom International Inc.
Female and Globe, Delta Air Lines, Inc.
Female and Globe (eng. with J. Keller), CBT Corp.
Female with Sword, Eagle & Globe (P. Calle artist), National City Corp.
Female with Torch, Hitachi, Ltd.
Female with Torch & Scroll (Crosman artist), Brooklyn Union Gas Co.
Man With Bare Chest (arms extended).
Man, Woman & Globe (art by Crosman), Acme Cleveland Corp. (1977).
Medusa Head, Medusa Corp. (1976).
Spirit of Technologies (unknown artist), Cincinnati Milacron (1979).

Miscellaneous

de Castes, Ramon, $50 Puerto Rico savings bond (1976).
de Hostos, Eugenio M., $25 Puerto Rico savings bond (1976).
Hockey Player, U.S. Postal Panel (1979).
Sears Building, registered instrument (1975).
Torch (eng. with K. Guy, 1979), U.S. Postal Panel.

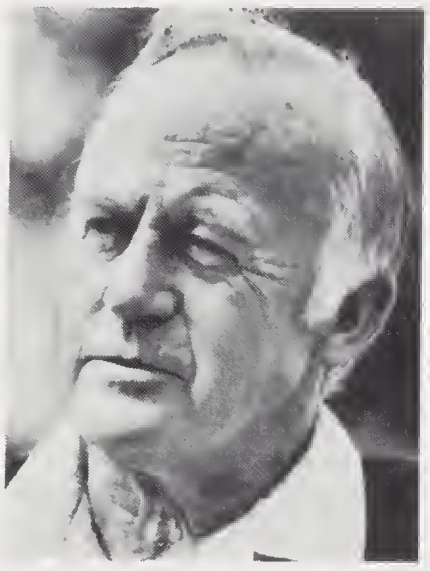
HAY, DeWitt Clinton. *PEng.* b. Saratoga, NY 1819, d. 22 July 1887. Some time after 1844 he served his apprenticeship with Rawdon, Wright & Hatch. About 1850 he was engraving with Wellstood, Hanks, Hay & Whiting and remained with successor companies. Hay became the Supervisor of the Picture Dept. at American BNCo.

Bank Notes

Columbus,,Christopher, Dominican Republic 2 pesos, PS124.
Mechanic: Bank of Granville, OH $2; Citizens Bank, Pittsburgh, PA $2.
Polar Bear Attack (art by F.O.C. Darley): Falmouth Bank, MA $3; Bank of Germantown, PA $1.
The Ship Carpenter: City Bank of (New Orleans) LA $3; Canada $10, PS1059.
The White Bear (see Polar Bear Attack).

Miscellaneous

Commerce & Agriculture (art by J.D. Smillie), Grand Duchess Mining Co. stock certificate (1879).
Eagle in circle (37 mm), American Exchange Bank, use uncertain.
Merchants Bank of Boston Trade Mark (37 mm), use uncertain.
New Brunswick stamp, A7.
Pittston Bank Trade Mark, Flour City NB draft (1881).



HAY, John. *Art, Inv, PEng & PtEng.* b. Kingston-on-Thames, England, 3 July 1908, d. Larchmont, NY 26 Oct. 1989. He spent a few early years with relatives in Brooklyn, NY. Following his return to England, he and his family moved to Ottawa, Ontario. There, Hay studied at the Collegiate Institute, the Provisional School of Engineering of the Royal Military College in Kingston, and the Ottawa Technical School of The Royal Canadian Academy of Fine Arts. He also studied mechanical engineering at London University. Mr. Hay spent a five-year apprenticeship with the Canadian BNCo; during this time he was sent to NYC to study drawing under George Bridgman. John Hay moved to Larchmont, NY in 1945 to engrave for American BNCo. There, he engraved a portrait of fellow-engraver E.T. Loizeaux. In 1962 he joined the United States BNCorp as vice-president of research and development. He suffered a stroke in 1970 but did not retire until 1973. One of his many inventions was an armored tank periscope that saved numerous lives. Mr. Hay was a serious student of the occult. He also published *The Individual Thinker*, a contemporary culture magazine.

Foreign Bank Notes

Brazil
Princesa Isabel, 50 cruzeiros, P137, P145 & P152.
Cuba
Agramonte, I. (wreath and background eng. by J. Wallace), 10,000 pesos, P85.
Dominican Republic
Columbus Monument, 50 pesos, P22.
Obelisco de Ciudad Trujillo, 500 pesos, P24.

Dominican Republic
Sugar Plantation, 500 pesos (back), P24.
Guatemala
Fundacion de la Antigua Guatemala, 10 quetzales, P94.
Palacio de la Capital, 1 quetzal, P92.

Mexico
Fortress, 2 pesos (back), essai.

Corporate Bonds

Civilization (man & seated woman; art by Crosman), Time, Inc.
Paul Revere & Old North Church, New England T&T (1956).
The First Telephone – Boston 1875, New England Telephone & Telegraph Co.

Stock Certificates

Campbell Soup Symbol, (1954).
Electronics No. 3 (art by J.F. Carlson), Richardson Electronics, Inc.
Electronics No. 4 (art by J.F. Carlson), Lamson & Sessions Co.
Fanny Farmer, Fanny Farmer Candy Shops Inc.
Female with Caduceus and Globe (art by A. Foringer), U.S. Shoe Corp. (1956).
Industry (woman, globe & caduceus), Dow Jones & Co., Inc.
Man and Woman (art by J. Crosman), Tandycrafts,

Man, Pipeline, Bear & Monogram, Trans Mountain Pipe Line (1957).
Textile and Mercury (art by A. Foringer), City Stores.

Stamps

Canada
Canada Goose, 7¢, S320.
Corvette (ship), 20¢, S260.
Elizabeth, Princess, 4¢, S276.
George VI, King: 1¢, 2¢ & 3¢, S249-251; 1¢-5¢, S284-288.
War Memorial, Ottawa, 2¢, S247.
Costa Rica
5¢-10 colones, SC452-771, SAP85.

HAY, Sidney. *Trans.* He was employed at American BNCo in the early 1860s.

HAYES, James. *Trans.* (see Amendt.)

HEADLEY, A.D. *Trans.* He was employed at American BNCo in the early 1860s.

HEERD, John. *GLO.* d. 21 May 1931. He began his employment at American BNCo on 15 March 1909.

HEFFERN, Joseph L. *Trans.* b. Philadelphia, PA 1890. He was employed at Security BNCo ca. 1912. Heffern joined the Bureau of Engraving and Printing on 8 Sept. 1917; he became a siderographer on 1 July 1922. Heffren's last date on record at the Bureau of Engraving and Printing was 1 Feb. 1936, he nevertheless appears in a 1947 BEP group photograph, perhaps taken during a visit.

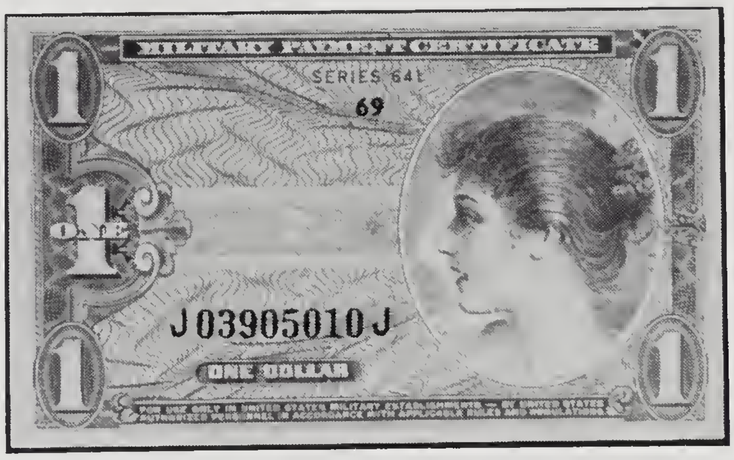
HEIN, Edward. *Sid.* He learned his craft at the Bureau of Engraving and Printing. Hein later worked for the Central BNCo in Chicago. In 1946 he joined the Northern BNCo.

HEIN, Edward J. *PEng.* b. Philadelphia 5 Jan. 1873, d. 28 July 1932. He was educated in Philadelphia including studies at the Franklin Institute. His apprenticeship took place at Bently, Banks & Biddle. He went to the Bureau of Engraving and Printing on 18 October 1918; he retired on 27 July 1932.

Military Payment Certificates

Female head, Series 541, $1, S-B50.
Female profile, Series 641, $1, S-B71.

Stamps
Canal Zone
Blackburn, 50¢, A44.
Gorgas, 1¢, A35.
Rousseau, 20¢, A42.
Philippines
Rice Terraces, 24¢, A48.



HELM, Augustine L. *Art, Mod & Des.* b. Wheeling WV 15 Aug. 1833, d. 26 Apr. 1920. After attending St. Francis Xavier U. in Cincinnati, he joined Rawdon, Wright, Hatch & Edson (RWH&E) in that city where he learned engraving from Thomas Harrison; Helm remained with this company from 1845 to 1852. In 1856 he was transferred to the NY office of RWH&E. About 1861, after the formation of American BNCo, he was sent back to Cincinnati as superintendent. When this office was closed in 1873 Helm returned to the NY office as deputy assistant. In 1876 he joined the Philadelphia BNCo; later in the year he became president of the United States BNCo in NYC. This company failed in 1877 due to a lack of support that Jay Gould had promised, and because of a bogus order from a Latin American country. From 1879 to 1880 he did private work including designs for Tiffany and the National BNCo. In 1881 Helm joined the HBNCo and in 1885 he moved to the Bureau of Engraving and Printing. Nine years later he established A.L. Helm & Son in NYC. He retired in 1900 due to poor eye sight. Helm was also a handwriting expert and was called upon to exercise that ability. His sons Henry and Charles (d. 1928) were engravers. The latter engraved for the U.S. Dept. of the Interior.

HELM, Viola. *ScrpEng.* d. 1915. She is the daughter of Augustine L. Helm. Ca. 1878 she was engraving for Joseph W. Rueff & Co. She was probably the only female engraver at that time.

HELMESETH (HJELEMSETH), Kristian. He began as a porter at American BNCo on 24 Dec. 1936. Helmeseth became a prover on 29 Oct. 1942.

HELMUTH, Edward H. *LtEng.* b. ca. 1903. He joined the Bureau of Engraving and Printing in 1909 and was appointed assistant superintendent ca. 1935. Helmuth is one of eight engravers who did ornamentation on the 1935, $1 SC back. He retired on 30 November 1951.

HENDWEBER, G. This is probably a corruption of Hanweber.

HENLOCK, George F. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s and as late as 1951.

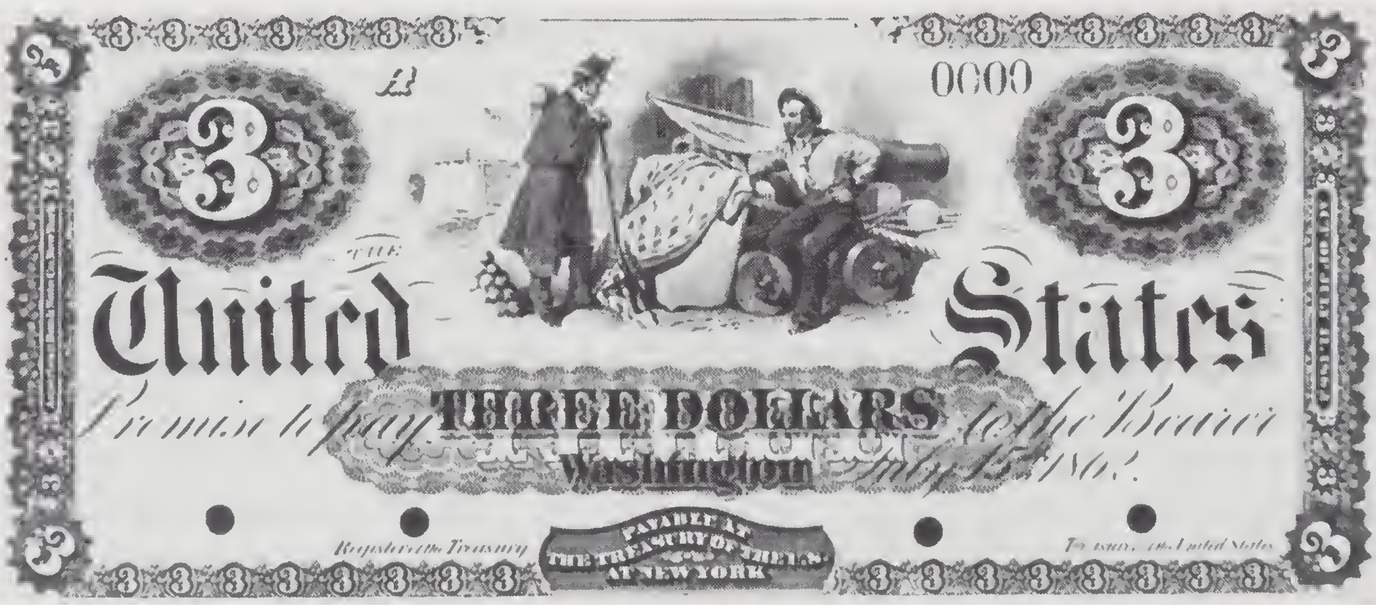
HENNINGER, Theodore W. *Des.* This designer probably worked in the early 1900s.

HERLOCKER, O.H. *Trans.* He was employed at the Bureau of Engraving and Printing from ca. 1910 to 1926. On 1 February Herlocker joined American BNCo. Due to a lack of work he left on 12 July 1934.

HERMAN, HANS. LtEng. He joined American BNCo 18 Dec. 1911 after spending time with the international BNCo. It is uncertain if he returned to ABNCo after service during World War I.

HERRICK, Henry W. *Art, Des & PEng.* b. Hopkinton, NH 23 Aug. 1824, d. Manchester, NH 12 July 1906. On his own, he became a wood engraver in Concord, NH. At age 20 he was studying at the National Academy of Design. Before Herrick turned 21 he was engraving illustrations for NY publishers. In 1852 he was engaged as a teacher at the School of Design for Women; four years later he was the principal. In 1858 Herrick left the school and worked as an illustrator and engraver for publishers and bank note companies. He returned to Hopkinton in 1865 and was one of the founders of the Manchester Art Association. The Manchester Historic Association has a number of Herrick's watercolors. The following subjects are his designs.

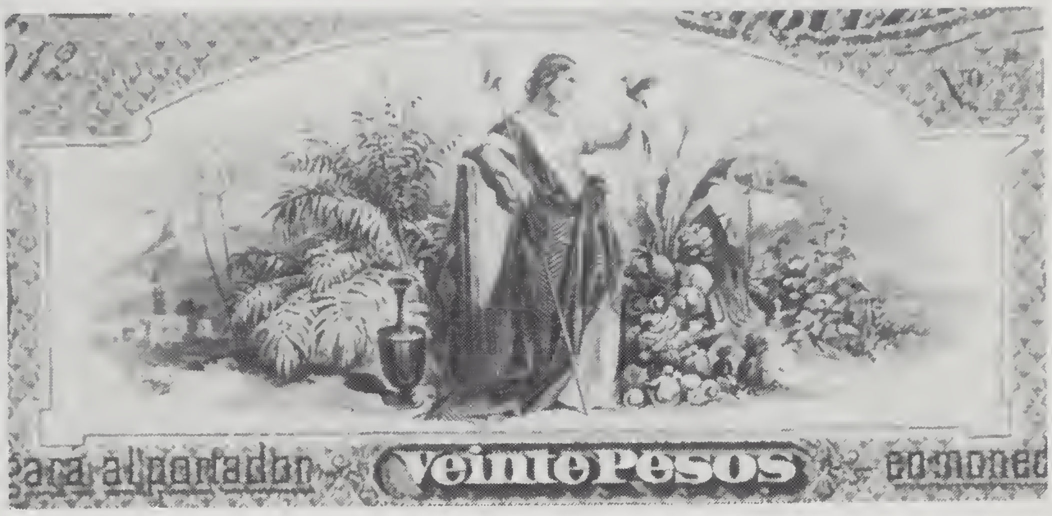
United States Obsolete Bank Notes



Army and Navy: USN $3 (*essai*), 1862; Harrisburg Bank, PA $3; Bank of Lawrence County, PA $5; Mount Holly Bank, NJ $1.50. (The latter note bears "H.W.H. SC" at the lower left, even though L. Delnoce is credited with this engraving.)
Express Wagon (eng. Beckwith & Rice), Mercantile Bank of Hartford, CT $5.
Mechanic: Bank of Granville, OH $2; Citizens Bank, Pittsburgh, PA $2.
Petroleum Wells (eng. T. House), Petroleum Bank, Titusville, PA $1-$50.
The Tropics (eng. W.W. Rice): Planters Bank of TN $2; Union Bank of TN $1.

Foreign Bank Notes

Argentina
The Tropics (eng. W.W. Rice): 20 pesos, P680.
Canada
Loggers (eng., O.G. Hanks), $5, PS641.
St. John the Baptist (eng. C. Burt), $10, PS844 & PS852.
Colombia
The Tropics (eng. W.W. Rice), 1-10 pesos, PS186-189 (modified).
Ecuador
The Tropics (eng. W.W. Rice), 1 peso, PS111.
Guatemala
The Tropics (eng. W.W. Rice), 20 pesos, PS179.
Hawaii
The Tropics (eng. W.W. Rice), $50, P3.
Mexico
Agriculture (eng. W.W. Rice), 1 peso, PS264.
Girl & Calf (eng. O.G. Hanks), 50 pesos, PS478.
Peru
St. John the Baptist (eng. C. Burt), 2 soles, PS312 & PS322.



Corporate Bonds

Cane Harvesting (eng. W.W. Rice), FL Southern RR Co. (1883).
Logging (eng. Hanks), Green Bay, Winona & St. Paul RR Co. (1881).
Sugar Cane Press (eng. J.D. Smillie & A. Jones), American Sugar Refining Co. (1891).

Stock Certificates

Cooper, The (eng. Hanks), American Stage & Cooperage Co. (1894).
Nicotina (eng. C. Burt), American Tobacco Co. (1890).

Miscellaneous

Peace (eng. A. Jones), Agricultural NB certificate of deposit (1882).
The Continental (eng. W.W. Rice), Continental NB of Boston draft (1879).

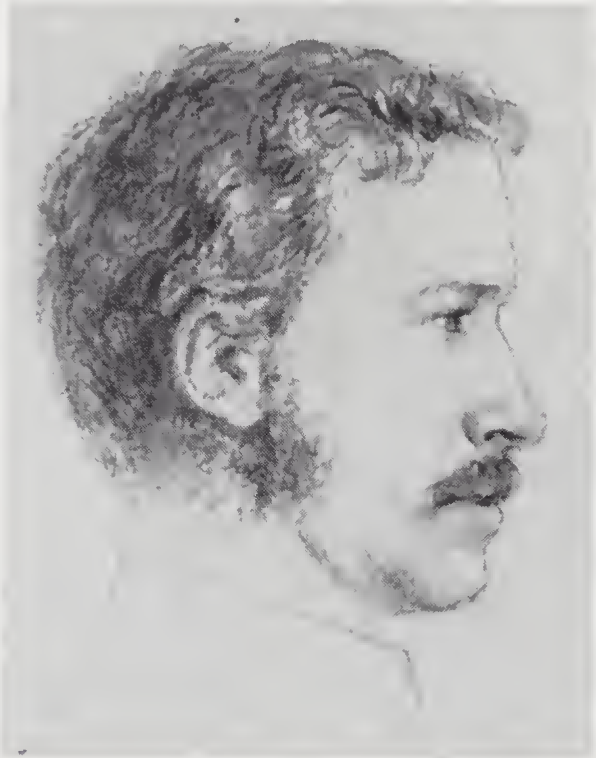
HESS, _____. *Trans.* (see Amendt.)

HESS, Henry. *ScrpEng.* d. 9 Oct. 1942. He began his employment at American BNCo on 7 Dec. 1896. Hess retired on 1 Aug. 1939.

HICKEY, Thomas H. *Trans & Sid.* He was employed at American BNCo as early as 1861 and as late as 1911. He joined the Bureau of Engraving and Printing at a later date.

H.H. No. 2. *Trans.* (see Amendt.)

HIDDEN, Henry A. *Eng.* He engraved the 5¢ and 10¢ Providence, RI stamps of 1846. He is the father of W.E. Hidden.

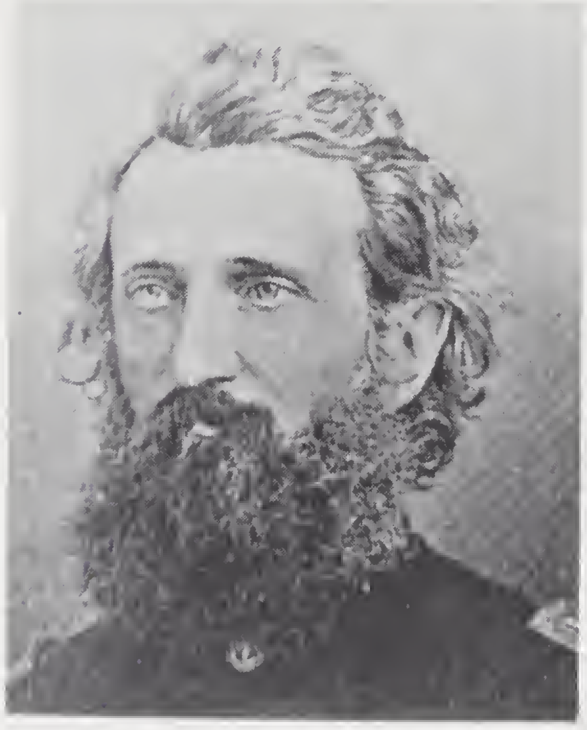


W.A. Hidden; sketch by M.W. Baldwin

George W. Holding

Clarence Holbert

Clair A. Huston



Elijah Hobart

Henry Inman

HIDDEN, William E. *Des.* b. Providence, RI, d. CA about 1930. From 1869-1878 Hidden was with American BNCo. An accomplished mineralogist, the gemstone Hiddenite that he discovered in 1879 bears his name. He is the son of Henry A. Hidden.

HILL, J.R. *Eng.* b. England 1840, d. 14 February 1913. He was appointed as an engraver at the Bureau of Engraving and Printing on 13 Nov. 1882. Hill became Chief of the Engraving Division on 17 June 1897 at $3,000 per year; this was increased to $4,000 on 18 April 1899.

HILL, Louis A. *ScrpEng.* b. Boston, MA 1865. While employed by the Steel Plate Printing Co., he applied for a position at the Bureau of Engraving and Printing. In this letter dated 8 May he asked that his father, J.R. Hill, not be consulted; he wanted the job on merit. "...if inquiries are instituted in this city (Philadelphia) at Dreka's and Bailey, Banks & Biddle Co. and also the American Bank Note Co. ...I will rank among the best." Hill was appointed to the BEP on 24 May 1900; he became Assistant Chief of the Engraving Division on 18 February 1913 and he was appointed Director on 31 March 1922.

HINDS, W. He was employed in the Transfer Division of American BNCo in 1911.

HINSHELWOOD, Robert. *PEng.* b. Edinburgh, Scotland 1812, still living in 1891. In Edinburgh he studied drawing with Sir William Allen and engraving with James and John Johnstone. With the help of James Smillie, Hinshelwood came to the U.S. ca. 1835 and engraved for Harper's and other publishers in NYC. About 1855 he worked for the Ladies Repository of Cincinnati. He was a partner in the short-lived union of Smillie & Hinshelwood. Many of James Smillie's landscapes were engraved by Hinshelwood. Drawings of James D. Smillie were engraved by him. For most of the life of the Continental BNCo (1863-1878), this engraver was employed there. He engraved *Milk Pail* for American BNCo. *The Crossing* is most often credited to James Smillie. However, ABNCo records state that in 1859 the National BNCo paid Hinshelwood for this engraving. It is possible that in 1861, or later, J. Smillie reengraved or altered it. Hinshelwood married James Smillie's sister Margaret.

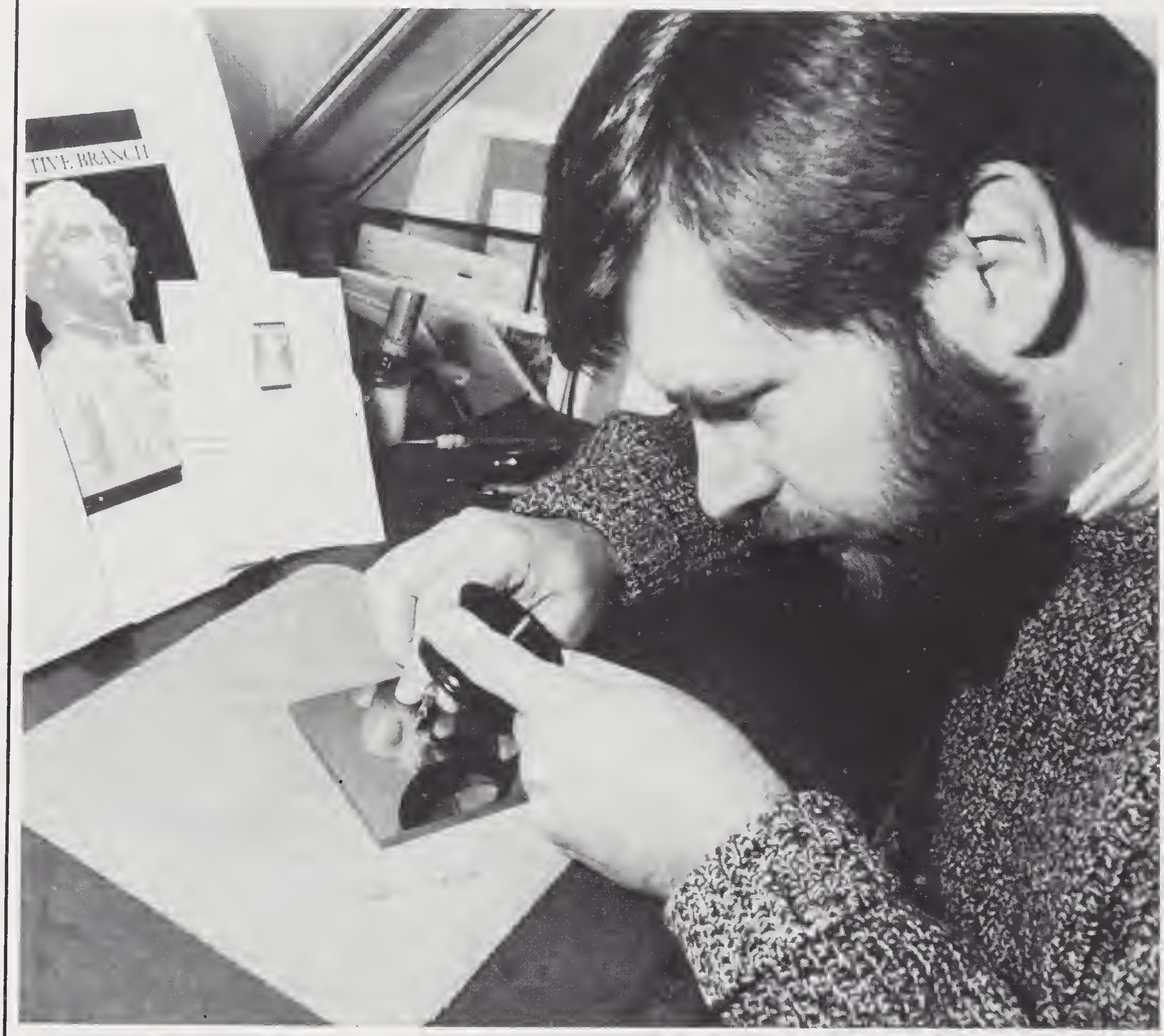
Bank Notes

Indian Spearing Bison, Bank of Nebraska, Omaha $1.
Chile
Cows (see River Side).
River Side (eng. W.H. Earle & J.D. Smillie), 500 pesos, PS338.
Nicaragua
Cattle (art also by Hinshelwood), 5 cordobas (back), P52.

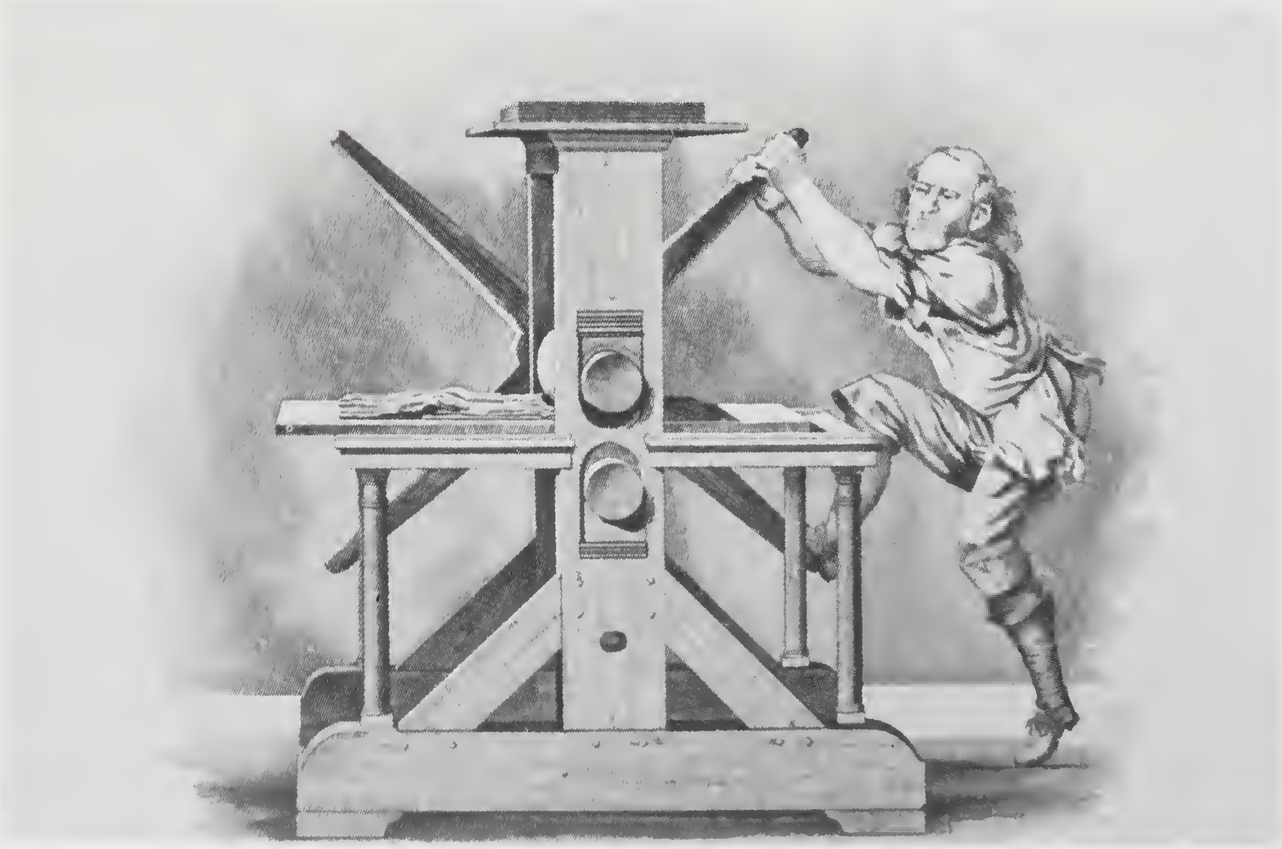
Miscellaneous

Cattle (art also by Hinshelwood), Missouri, Kansas & Texas Rwy stock certificate.
Indian, $100, HX188B, U.S. bond.
Lake Steamer (art by Charles Parsons), Old Colony Steamboat Co. reg. bd. and Old Colony Steamship Co. (cp.) bd. (both 1881).

HIPSCHEN, Thomas R. *PEng & PtEng.* b. Bellevue, IA 6 Oct. 1950. His art studies were done at George Washington U., the American U., and the Corcoran Gallery School of Art, all in Washington, D.C. On 3 Sept. 1968 Hipschen began a ten-year apprentice program at the Bureau of Engraving and Printing; he was the first to complete it in nine years. He began as a letter engraver at the BEP under Howard F. Sharpless; in his second year he switched to picture and portrait engraving. Numerous postage stamps were engraved by Mr. Hipschen, including the 1986 AMERIPEX 22¢ stamps. In 1985, as a free-lance engraver, a letterhead, engraved by this artist, and embossed, received three, prestigious, national awards. Mr. Hipschen engraved a coat of arms for the Folger Shakespeare Library in Washington, DC.



Thomas R. Hipschen



When Thomas Hipschen engraved this 1642 Abraham Basse subject, he placed the likeness of Harry R. Beech on the figure operating the printing press. Mr. Beech is Plate Printer Foreman at the Bureau of Engraving and Printing.

Official Presidential Portraits

George Bush (large). Jimmy Carter (small). Ronald Reagan (large).

Miscellaneous

Bureau of Engraving and Printing (building), 125th anniversary souvenir card.
Revere, Paul, invitation for opening of the Bureau of Engraving and Printing Design Center, 1987.
Statue of Liberty, souvenir card.

HISLE, Clinton M. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s.

HOAGLAND, H. Wilbur. *Trans.* He began his apprenticeship at American BNCo on 8 April 1899. On 29 Sept. 1933 Hoagland became superintendent of his department.

HOBART, Elija (Elisha). *Eng.* b. England, d. July 1864. He came to the U.S. ca. 1843 and was working in Albany, NY from 1845 to the 1850s; he was also employed by Joseph Andrews in Boston. Hobart was the second engraver to be employed at the National Currency Bureau (BEP); he first worked as a transferer. Examples of his pencil drawings were at the American Institute in NYC in 1846. He engraved, and had published in 1850, *The Landing of the Pilgrims;* it was dedicated to the Pilgrim Society of Plymouth, MA.

HOBRECKER, John. *Eng.* In the mid 1800s he resided in Quincy, IL. The following notes and billheads bear "J. Hobrecker, Sc": Phoenix Stove Works ($1 & 3); A.G. Anderson, Vermont Marble Works; J.D. Weatherwax Carriage Factory. Two examples on enameled metal, the size of business cards, Mellen & Co., and Felton and Potter, bear his name.

HODGE, _____. *Trans.* (see Amendt.)

HODGE, John. *Pr.* b. England. He worked with Charles Straker & Sons in London. Along with nine other printers Hodge came to Charleston, SC aboard the *Leopard of Glasgow;* these printers were recruited by Major Evans, a senior member of Evans & Cogswell, to print Confederate States of America currency. Hodge and the other printers were moved to Richmond, VA where they worked for Blanton Duncan. Local printers were paid in paper money, but, the English printers were paid in gold. After the Civil War Hodge settled in NYC where he became an American citizen and managed a printing company. He was still living in 1896.

HOLBERT, Clarence. *Des & Mod.* b. Rutherfordton, NC 26 Jan. 1944. This artist holds a degree from the University of the District of Columbia. His apprenticeship as a bank note designer was served at the Bureau of Engraving and Printing. Mr. Holbert began his employment at the BEP on 20 May 1970. He continues to design certificates, commissions and miscellaneous items for other U.S. government agencies.

HOLDER, George. *ScrpEng.* He began his employment at American BNCo on 16 November 1937.

HOLDING, George W. *LtEng & ScrlEng.* b. Morrisania, NY 29 Mar. 1855, still living in 1942. He studied under his father. Louis Delnoce helped Holding to gain employment at Continental BNCo in 1872 where he served his apprenticeship under Joseph Claxton. He remained with American BNCo when Continental BNCo consolidated with American BNCo in 1878. About 1901 Holding was appointed Assistant Superintendent of the General Engraving Dept. He retired on 12 Oct. 1930.

HOLMES, Harry. *Eng.* He was employed at the Western BNCo ca. 1870. Holmes went to South America, where he died.

HOLLAND, Samuel. He might have been an engraver at American Bank Note Co.

HOLLINGS, _____. *Trans.* (see Amendt.)

HOLMES, Henry. *LtEng, PEng.* b. New York ca. 1832. He was working in NYC from 1850-1858. In 1850 Holmes shared the same address as Rawson Packard. He was employed at American BNCo in 1860. The *Spread Eagle with Flag* first appeared on notes by Baldwin, Adams & Co. (BA), later Bald, Cousland & Co. (BC), and finally ABNCo. Consequently, Holmes could have worked for both BA and BC.

United States Obsolete Bank Notes

Spread Eagle with Flag: Central Bank of Alabama, Montgomery $20; International Bank, Washington, D.C. $10; Bank of Lyndon, VT $1; Bank of Sing Sing, NY $10; Central Bank of Troy, NY $10.

HOLT, John. *Pr.* b. VA ca. 1720, d. NYC 30 Jan. 1784. This former mayor of Williamsburg, VA came to NYC and worked with James Parker. He was sent to New Haven to operate James Parker & Co. In 1760 Holt returned to NYC. In 1766 he left the employ of Parker to become printer to the state. He printed New York bills dated 2 Sept. 1775 and 27 Mar. 1781.

HOMER, Winslow. *Art, Et & Xylographer.* b. Boston 24 Feb. 1836, d. Prout's Neck 29 September 1910. He attended Washington Grammar School in Boston. At age 11 he was sketching. In 1855 he was apprenticed to John H. Bufford in Boston where he learned to draw directly on stone; he remained with this lithographer for two years. Homer's first work was sheet-music title-pages for Oliver Dittson of Boston. In 1859 Homer was in NYC attending night classes at the NAD and a drawing school in Brooklyn. Although he would contributed wood engravings to Harper & Bros., he declined employment, "because," he said, "I had had a taste of freedom. The slavery at Bufford's was too fresh in my recollections to let me care to bind myself again. From the time I took my nose off that lithographic stone, I have had no master, and never shall have any" (Downes 35). *Saved*, his first etching, was begun in 1884. "J.H. Bufford's Litho. Boston" is found on stock certificates including those for the Maine Central RR Co. It is possible that Homer etched some of the vignettes. He was known to hide his initials in his etchings.

HONING, William R. *LtEng.* He began his employment at American BNCo on 16 July 1917. Honing was there as late as 1959.

HOOGLAND, William. *Art & Eng.* He was working in NYC in 1814-1820, and in Boston with Abel Bowen in 1826. Bank notes dated 18__ issued by the Massachusetts Bank bear his name. Hoogland returned to NYC in 1841. John Cheney was one of his pupils.

HOOKER, _____. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1815.

HOPKINSON, Francis. *Inv & Des.* b. Philadelphia 21 Sept. 1737, d. Philadelphia 9 May 1791. Hopkinson graduated from the College of Philadelphia (changed to U. of the State of Pennsylvania in 1780) on 17 May 1757. He "was the first scholar in this seminary at its opening" (Hastings 43). Later Hopkinson designed a seal for his alma mater. On 25 May 1780 he submitted an account of his designs to the Board of Admiralty: "The Flag of the United States; 7 Devices for the Continental Currency; A Seal for the Board of Treasury; Ornaments, Devices & Checks for the new Bills of Exchange (in Spain and Holland); A Seal for the Board of Admiralty; The Borders, Ornaments & Checks for the new Continental Currency now in the Press [1778 & 1779], a Work of considerable Length; A Great Seal for the United States of America, with a Reverse" (Hastings 240). Soon after Hopkinson sent a bill for £2,700 or £45 in hard money to be computed at 60 for one in Continental.

From 7 July 1778 to 23 July 1781 Hopkinson was the U.S. Treasurer of Loans. As a representative for NJ he is one of the signers of the Declaration of Independence. Working in the shadow of his contemporary this "minor Franklin" was an artist, inventor, musician, poet and writer. The first composition written by a native of the colonies, "My Days Have Been So Wondrous Free," is by Francis Hopkinson.

HORTENS, Walter. *Art. Des.* b. ca. 1914. Between July 1960 and June 1961 he created designs for American BNCo including those for Tidewater Oil Co. and Public Service of Arizona.

HOSACK, _____. *Eng.* He engraved for Rawdon, Wright & Hatch about 1812.

HOUSE, Timothy. *PEng.* d. ca. 1865. He was working in NYC as early as 1836. From this time until 1865 he is listed in Boston Directories as a bank note engraver; 1845-1847 with Rawdon, Wright & Hatch. Mr. House was later employed in that city by American BNCo. He also did book illustrations.

United States Federal Bank Notes & Bonds

Arms of Kansas for NBN backs.
Arms of Rhode Island for NBN backs.
Arms of Tennessee for NBN backs.
The Picket (art by F.O.C. Darley): $100, HX130B; $5,000, HX135B

United States Obsolete Bank Notes

Petroleum Wells (art by H.W. Herrick) Petroleum Bank, Titusville, PA $1-$50.
Sailor: Howard Bank, Boston, MA $2; Louisiana Citizens Bank, New Orleans $50.
Wagon at Station (art by Schussele), Humboldt Bank, Naperville, IL $2.

Foreign Bank Notes

Canada
Sailor, La Banque Nationale, $4, PS846.

Dominican Republic
Two Sailors at Work (eng. with O.G. Hanks; art by F.O.C. Darley), 5 pesos PS105.

Greece
Arms of Greece, 25 & 100 drachmai, P28 & P29.

Mexico
Sailor & Capstan (art by G.H. Thomas), 20 pesos, PS410.

Miscellaneous

Arms of Michigan: Bangor & Aroostook RR Co. (1895) & Central Michigan RR Co. (1888) cp. bds.
Buckeye Mower, Buckeye Mower & Reaper Works draft (1880).
Buffalo (art by F.O.C. Darley), American Museum of Natural History membership certificate, 1882.
Corn Gathering, Union Pacific Rwy cp. bd. (1882).
Eagle & Flag, Republican National Convention ticket, 7 June 1892.
Washington at Delaware (art by Liebler). Washington Life Insurance Co.
Wharf Scene No. 2 (art by W. Croome): Detroit Union RR Depot & Station Co.; Georgia Pacific Rwy Co. (both 1882).

HOUSE, Timothy, Jr. In 1847 he was in the Boston office of Rawdon, Wright & Hatch.

HOWE, Franklin T. *LtEng.* b. Ohio 17 July 1873, d. 11 Oct. 1945. He began his apprenticeship as an engraver at the Bureau of Engraving and Printing on 29 July 1892. Although classified as a LtEng, Mr. Howe engraved the *Female* on the Series 661, $20 military payment certificate, S-B88.

HOYER & LUDWIG. This Richmond, Virginia firm, operated by Louis Hoyer and Charles L. Ludwig (d. age 46), was the primary printer of Confederate States of America (CSA) stocks and bonds; they also printed CSA postage stamps. Employees were brought from Baltimore to assist with work for the CSA. Hoyer & Ludwig was in operation from 1861 to 1864.

HUBER, George L. *LtEng.* b. Baltimore, MD 10 May 1903. He attended the Maryland Institute (1912 & 1937) and the Corcoran Gallery School of Art (1936 & 1937). Huber came to the Bureau of Engraving and Printing as a messenger. He worked as a siderographer and pantagraph operator before becoming an engraver. The back of the USN $5, H246A-273 is Mr. Huber's work. He retired on 22 Sept. 1961.

HUFTY, Joseph. *Eng.* b. ca. 1800, d. 1859. He was working in Philadelphia in 1823. Just before his death, he was listed in the city directory as a "copper plate and steel engraver."

HUFTY, Samuel. *PEng.* b. ca. 1800, d. ca. 1853. He was listed in the Philadelphia Directory in 1823 as an engraver. He was with Draper, Underwood, Bald, Spencer & Hufty 1837-1839. His name appears again in 1843 with Bald, Spencer, Hufty & Danforth; he remained until 1850 when the company name was Danforth, Hufty & Co.

HULL, L. This siderographer was employed at the Bureau of Engraving and Printing in 1947.

HUMPHRYS, William. *Eng.* b. Dublin, Ireland 1794, d. Genoa, Italy, 21 Jan. 1865. About 1814 he came to the U.S. and studied with George Murray. Humphrys went to England about 1822 but returned to the U.S. and remained here from 1843-1845. He probably worked independently in NYC and Philadelphia, but might have done work for J.B. Longacre. Humphrys was known in England as the "American Engraver." He engraved the portrait of Washington on the 5¢, 1845 Postmasters postage stamp; the same portrait is found on the Farmers' Exchange Bank, Charleston, SC $20 note, both printed by Rawdon, Wright, Hatch & Edson. He died in Italy where he had gone for his health.

HUNT, Frank. *LtEng.* He began his employment at American BNCo on 23 April 1890. Hunt resigned in 1908, was rehired on 22 Jan. 1909. He retired on 3 June 1944.

HUNT, Dr. Thomas Sterry. b. Norwich, CT 5 Sept. 1826, d. NYC 2 Dec. 1892. Following studies at Yale, Hunt moved to Montreal to work for the Canadian Geological Survey. He came to the attention of W. Workman, President of the City Bank of Montreal. At the request of Workman, Dr. Hunt ultimately developed an anti-photographic green ink. Hunt sold the Canadian patent (No. 715) to George Matthews, who sold it to G.B. Burland and George L'Africain. The American patent (No. 17,688) was sold to Tracy Edson. Hunt wrote to a friend: "You ask about my, or rather Mathew's [sic] green tint. It is largely used in the United States, but I sold it there for a trifle, and here our large banks move slowly, but all have adopted it, so in a year they will have it in use, and pay me something. I hope to sell it in England, but nothing definite has come about, and have offered it to the Russian Government through a friend. As yet it has been rather more trouble than profit" (James Douglas, "A Memoir of Thomas Sterry Hunt, Ph.D, L.L.D." Read before the American Philosophical Society, 1 Apr. 1898, p. 4).

HUNTER, Henry J. *Trans.* He was employed at American Bank Note Co. in the early 1860s.

HUNTER, William. *Pr.* b. VA, d. Aug. 1761. He was the printer for the House of Burgesses; he printed Virginia notes dated 8 July 1757 and 12 Oct. 1758. Hunter was also the deputy postmaster general.

HUNTINGTON, _____. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1812 where he is credited with a vignette entitled *Solitude.*

HUNTZBERGER, C. *ScrpEng.* He was employed by Baily, Bache & Biddle.

HURD, Nathaniel. *Eng.* b. Boston 13 Feb. 1730, d. 17 Dec. 1777. The *Boston Gazette* dated 28 Apr. 1760 carried his advertisement as a "Gold, Silver, Copper, Brass and Steel Engraver." Hurd is probably the first recognized engraver in the U.S. The scene of punishment of Messrs. Hudson and Howe for forging colonial notes was engraved and sold by Hurd. He also partially engraved Massachusetts notes dated 18 Oct. 1776. Bookplates constituted most of his engraved work.

HURLBUT, Sidney S. *Eng.* d. ca. 1937. He was employed at the Western BNCo in 1871. In 1900 he was ordained as a Catholic priest.

HUSSAIN, Mohammed M. *Des & Eng.* b. Bombay, India 27 Jan. 1935. Following education in India he went to Pakistan ca. 1947. In 1958 Mr. Hussain was selected to train as a designer, engraver, transferer and plate maker. As part of his training he was sent to Thomas De La Rue in England in 1961, and to Italy in 1973. From ca. 1971-1975 he was involved in the production of bank notes, stamps and travellers checks in Pakistan. In 1978 Mr. Hussain came to the U.S. and joined the Northern BNCo, where he designs and engraves subjects for a variety of security instruments. In 1984 he was one of ten who received the Outstanding New Citizens Award in Chicago.

HUSTON, Clair Aubrey. *Des.* b. Philadelphia 1 Dec. 1857, d. 3 Mar. 1938. After he joined the Bureau of Engraving and Printing on 24 Nov. 1902, where he remained for 31 years, he designed bank notes and well over 100 postage stamps. Alvin W. Hall, Director of the BEP, said "He had no superior. Indeed, his work was altogether unique. There is no other individual like him in the Government service."

United States Federal Bank Notes

$10 (backs): FRN, H618 & H619; FRBN, H620.

Stamps

Canal Zone

1¢ & 2¢, 1928.
Blackburn, J.S., 50¢, A44.
Gaillard, D.D., 12¢, A39.
Hodges, H.F., 10¢, A38.
Rousseau, Adm. H.H., 20¢, A42.
Smith, Jackson, 15¢, A41.

HUTCHISON, Arthur. d. 6 June 1932. After working at International BNCo he began his employment at American BNCo in 1898, probably as a transferer. Hutchison retired on 1 Jan. 1932.

HUTCHISON, Walter. d. 1930. He began his employment at American BNCo on 29 October 1917, probably as a transferer. Hutchison also worked for Hamilton BNCo.

HYDE, Edward. *Mod & Des.* d. 4 Feb. 1944. He began his employment at American BNCo on 10 Jan. 1893 and retired on 13 Feb. 1931.

I

INMAN, Henry. *Art & Des.* b. Utica, NY 28 Oct. 1801, d. NYC 17 Jan. 1846. He was living in NYC in 1812 and was apprenticed to John Wesley Jarvis in 1814; ten years later Inman was working independently. In 1826 he helped organize the National Academy of Design. Between 1826-1828 he was a partner with Thomas C. Cummings; in 1834 he moved to Philadelphia to form Childs & Inman. Three years later he was back in NYC. Inman is credited with *Mercury with Commerce* on the following bank notes: Bank of Darien, GA $5; Clinton Bank, Columbus, OH $2; People's Bank, Bangor, ME $3.

INGRAM, J.R. *LtEng.* He was employed at American BNCo in 1860.

INTERNATIONAL BANK NOTE CO. A short-lived company with this name consolidated with American BNCo in 1879.

INTERNATIONAL BANKNOTE CO. This New York company was formed in 1884. Their first address was 245 Broadway; in 1887 they moved to 15 Park Place; from 1889-1899 their address was 18 Broadway. Engraver A.L. Helm represented the company for a brief time. In 1892 American BNCo acquired IntBNCo, which remained a subsidiary as late as 1941. In 1972, IntBNCo acquired controlling interest in ABNCo. IntBNCo "is involved primarily in the fields of financial and related services through its (subsidiaries), American Bank Note Company (and American Bank Note Holographics)" (1972 Annual Report p. 3). In 1990 IntBNCo was purchased by USBNCorp.

IRMSCHER, Carl. *LtEng.* He began his employment at American BNCo on 17 Oct. 1927. Due to a lack of work Irmscher was let go on 24 June 1932. On 20 Jan 1947 he returned to ABNCo and was there as late as 1959.

J

JACOBS, William M. b. Green Lane, Montgomery County, PA 20 Apr. 1862, d. Norristown, PA 30 Jan. 1934. As a successful cigar manufacturer he realized he could save money by counterfeiting the IRS stamps needed for packaging. Jacobs was the brains behind the counterfeiting of the $100, 1891 silver certificate (H1220 & 1221). The notes were so convincing that the U.S. Treasury recalled the entire issue. He served time in the Atlanta Penitentiary (see Arthur Taylor and Baldwin S. Bredell).

JEFFRIES BANKNOTE CO. This Los Angeles company was founded in 1894. "Over the years, Jeffries Banknote has designed a wide range of security documents, from currency issues and stock certificates, to travelers cheques issued in seven different countries and even the admission tickets for the 1932 and 1984 Olympic games" (Jeffries [7]). Armandina Lozano, the only female portrait engraver working in the U.S., is employed at Jeffries. United States BNCorp acquired Jeffries BNCo in 1989.

JENNY, Charles G. *ScrpEng.* He was employed at American BNCo between 30 July 1928 and 30 Jan. 1931.

JERNDAL, Wesley. *PEng.* b. ca. 1914, d. 18 Jan. 1942. He began his apprenticeship at American BNCo on 28 July 1930. With the exception of the period from 12 July 1934 until 5 June 1936, Jerndal was at ABNCo until the time of his death. A portrait of *Phillip Corbin* and the *Airplane* on the China 25 yuan (back), P160, are credited to Mr. Jerndal.

JEWETT, Charles A. *Eng.* b. Lancaster, MA 1816, d. 1878. He was engraving in NYC in 1838. From 1850 to 1857 Jewett was in Cincinnati; the first three years could have been with Toppan, Carpenter & Co. From 1853 to 1857 he was with Danforth, Wright & Co. Jewett returned to NYC ca. 1860.

JLK. *Trans.* (see Amendt.)

JOCELYN, Albert Higley. *Electrotypist & xylographer.* b. New Haven, CT 21 Dec. 1827, d Brooklyn, NY 9 Jan. 1900. With his father, Simeon Smith Jocelyn, he moved to Brooklyn NY in 1841. At age 22 he was listed as an engraver at 64 John St., NYC. Between 1853 and 1861 Jocelyn executed woodcuts for magazine illustrations. In 1861 he made a woodcut facsimile of the 1861, $100 three-year IBTN, H1144-1148 for the *Scientific American* (10 Sept. 1861).

JOCELYN (JOCELIN), Nathaniel. *Art & Eng.* b. New Haven, CT 31 Jan. 1796, d. New Haven, CT 13 Jan. 1881. (The spelling of the name was changed from Jocelin to Jocelyn ca. 1818.) He was first apprenticed to his father as a watch and clockmaker, then, in 1813, with George Munger. Two years later he engraved bank notes for the Derby Bank in Connecticut, his first, with Fairman, Draper, Underwood & Co. In 1817 he was affiliated with the Hartford Graphic & BNCo. The following year he joined his brother to form the Nathaniel & Simeon Smith Jocelyn Co. Even though he continued in this partnership, in 1834 he was associated with Draper, Underwood, Bald & Spencer as agent. The partnership with his brother failed in 1844. In 1849 Nathaniel Jocelyn was employed by Toppan, Carpenter & Co. Five years later he joined Draper, Welsh & Co. of Philadelphia; Jocelyn's daughter, *Cornelia*, appears on the Pittsfield Bank, Illinois $5 note, among others prepared by this company. During the partnership with his brother, this engraver went to Europe in 1829 with Samuel F.B. Morse to study painting. He had his own portrait studio in NYC from 1843 to 1847. Jocelyn was a founder of American BNCo (1858). In 1854 the firm of Jocelyn, Welsh & Co. used the name of American BNCo for the Philadelphia office of Draper, Welsh & Co. In 1865 he retired from ABNCo to resume painting in New Haven. Jocelyn was instrumental in the erection and endowment of the Yale Art School and served as the first curator. His designs are found on the following notes.

United States Federal Fractional Currency

5¢ (backs), H1502-1505; 10¢ (backs), H1514-1517.

United States Obsolete $1 Bank Notes from Connecticut

Eagle Bank of New Haven; Bridgeport Bank; Jewett City Bank, Southport; New Haven Bank; City Bank of New Haven.

JOCELYN, Simeon Smith. *PtEng.* b. New Haven, CT 21 Nov. 1799, d. Tarreytown, NY 17 Aug. 1879. He was engraving as early as 1817. In 1827 a partnership was formed with his brother, Nathaniel. In 1831 a NYC branch of N. & S.S. Jocelyn was formed. The following is an example of their charges: "Engraved copper plate of four notes $250; retouching of same $125; engraved steel plate of four notes $500; retouching of same $250; printing of 100 impressions $2" (Altman, n.d., 139). The ad stated further that a copper plate would take 6,000 impressions and a steel plate 35,000 before retouching. From 1841 to 1853 Jocelyn was with Draper, Toppan & Co., and, Toppan, Carpenter & Co. In 1853 S.S. Jocelyn withdrew from the engraving field to join the American Missionary Society and fought against slavery. The *New Haven Green* on City Bank of New Haven $1 is probably the work of Jocelyn.

JOCELYN Simeon Starr, Jr. b. New Haven, CT 8 Oct. 1825, d. Florida ca. 1860. He was a clerk for Toppan, Carpenter & Casilear. In 1854, with his uncle Nathaniel, Jocelyn, Draper, Welsh & Co. was formed. Jocelyn is a founder of American BNCo. Although he was listed in directories as an engraver, it is uncertain if he engraved extensively.

JOHN A. LOWELL BNCo. (see LOWELL, John A.) This company operated in Boston. Charles Burt and Joseph A. Rueff engraved for this company.

JOHNHE, Walter. *LtEng.* He was employed at Security BNCo from about 1930 to 1950.

JOHNSTON, David Claypool. *Eng.* b. Philadelphia, PA Mar. 1799, d. Dorchester, MA 8 Nov. 1865. He served his apprenticeship under Francis Kearney. Four years later this American Cruikshank was creating caricatures on his own. Victims of these creations forced publishers and print sellers not to accept Johnston's work. This artist and engraver created the 1837, satirical *Great Locofoco Juggernaut.* This cartoon, in the form of a 12½¢ note, criticized the fiscal policies of Jackson and Van Buren.

JOHNSTON, John. He engraved Rhode Island notes dated 14 Feb. 1743.

JOHNSTON, James. *Pr.* b. Scotland ca. 1738, d. Savannah, GA Oct. 1808. He opened his printing house in 1762 and became printer for the government.

JOHNSTON, Thomas. *Eng.* b. Boston, MA 1708, d. Boston, MA 8 May 1767. He engraved maps, bookplates and music; he was also an heraldic artist and organ builder. The initials of this engraver ("T.I.") were added to the Rhode Island notes redated 1746.

JONES, Alfred. *PEng & PtEng.* b. Liverpool, England 7 April 1819, d. NYC 18 Apr. 1900. It is uncertain when he came to the U.S., but in 1834 he was serving his apprenticeship with Rawdon, Wright, Hatch & Edson in Albany. Jones moved to NYC and studied at the National Academy of Design; he was made an Academician on 14 May 1851. He was engraving independently ca. 1841 and executed *The Farmers Nooning* for the American Art Union in 1843 and *The Image Breaker* in 1850. The latter is recognized as one of the best American engravings. Additional engravings by Jones published by The American Art Union were: *Sparkling, The New Scholar, Mexican News, One of Life's Happy Hours, Poor Relations,* and *Patrick Henry Delivering his Celebrated Speech in the White House of Burgesses, Virginia 1765.* After his trip to England and France in 1846, to perfect his talent as an oil and watercolor artist, he returned to devote his time to bank note engraving, independently from 1852 to 1857.

In 1866 Jones became the president of the United States BNCo; from 1868 to 1870 he was the vice-president of the British American BNCo. With Francis Edmonds, the company of Edmonds, Jones & Smillie was formed in 1857; W.C. Smillie was the third member. In 1859 this company was absorbed by American BNCo where Jones became superintendent of the Picture Dept. He is the inventor of the forerunner procedure known today as halftone process. Death came at 33rd St. and 5th Ave. in NYC. Alfred Jones was struck by a hansom cab; the driver fled. The engraver died later that day.

United States Federal Bank Notes

America, $20 DN, H700; $20 USN, H701-701d.
Arms of Kentucky for NBN.
Franklin and Electricity, 1752, $10 US, H509-539 & H567-577.
General Scott's Entrance into Mexico, $100 NBN, H1403 & H1404.
Liberty, $20 USN, H703-723.
Loyalty (art by A. Jones; eng. by W.W. Rice), $50 IBTN, H945c.
Prince of Wales (art by F.X. Winterhalter), $100 TN, HX121A.
Washington Crossing the Delaware: $50 NBN, H953-986; $50 NGBN, H1013-1014f.

United States Obsolete Bank Notes

Agriculture (art & eng.): Milwaukee County Bank $5; Bank of Gettysburg, PA $1; Fairmont Bank, VA $2.
Declaration of Independence, $5 City Bank of Philadelphia.
Elliot Preaching to the Indians, New Haven Bank, CT $1.
Girl Leaning on Haystack: Union Bank, Benton, IL $2; Farmers & Mechanics Bank, Rahway, NJ $20; Bank of Gettysburg, PA $1.
Grinder (art by F.W. Edmonds), Bank of Hamburg, SC $5.
Horses Frightened by Lightning (by A. de Dreaux), $2 Liberty Bank of RI.
The Calmady Children (see J.P. Ourdan).

The Example (F.W. Edmonds artist): Bank of Chambersburg, PA $1 & $10; Bank of Lawrence County, PA $2; the Central Bank of Frederick, MD $1.
The Hail (art by F.W. Edmonds; see J. Smillie, coengraver).
Union: City of Memphis $5; Rhode Island Union Bank, Newport $1.
Washington, George: George Washington Bank, Corning, NY $1 (back); Bank of Chattanooga, TN $10 (back); Bank of Pittsylvania, Chatham, VA $20.

Foreign Bank Notes

Argentina
Cupid Disarmed, 5 pesos, PS678.
Bolivia
Justice, 10 pesos, PS223.
Struck it Rich, 5 bolivianos, PS206.
Brazil
Cleopatra (adaptation of art by Hans Makart), 20 mil reis, P45.
Columbia, 200 mil reis, PS644.
Electricity (woman and child), 200 mil reis, P73.
Study, 200 mil reis, P76.
British Guiana
Cleopatra (adaptation of art by Hans Makart), $100, PS138.
Canada
Britannia, $20, PS1375.
Cartier, Jacques, $1, PS821 & PS841.
Justice and Civilization, $10 (back), PS1157.
Loggers, $5, PS641.
Chile
Female and Child, 10 pesos, PS414.
Female with Flag, 10 pesos, PS414.
Colombia
Abundance, 5 pesos, PS359.
Female with Globe (eng. with L. Delnoce), 10 pesos, PS868.
La Siesta, 25 pesos, PS452.
Costa Rica
Female, Child & Lion, 2 colones, P159.
Study (background eng. by C. Rost), 100 colones, P164.
Dominican Republic
Reclining Woman, 2 pesos, PS104.
Ecuador
Cleopatra (adaptation of art by Hans Makart), 50 sucres, PS125.
Liberty, 1,000 sucres, PS130.
Struck it Rich, 20 sucres, PS160.
Study, 10 sucres, PS159.
El Salvador
Allegory (2 women), 1 peso, PS101.
Civilization, 5 pesos, PS123.
Female with Globe, 5 pesos, PS223.
Female and Children, 10 pesos, PS124.
Roses, 10 pesos, PS204.
German Federal Republic
La Critique (see F. Girsch), 100 marks, P8.
Guatemala
Peace and Caduceus, 1-500 pesos, PS111-120.
Hawaii
Liberty, $10, P7.
Mexico
Brunette, The, 100 pesos, PS479.
Cleopatra (adaptation of art by Hans Makart), 1,000 pesos, PS169.
Mexico
Coming Light (cupid; eng. with J. Smillie), 500 pesos, PS472.
Electricity (Nike), 20 pesos, PS331.
Fame, 50 pesos, PS384.
Female in Canoe, 100 pesos, PS167.
Female, Infant and Boy (art by J.D. Smillie), 25¢, PS118.
Female Seated (eng. with J. Smillie), 1,000 pesos, PS473.
Female with Fasces, 20 pesos, PS322.
Friar Bartolome de las Casas, 20 pesos, PS235.
Gathering Pulche (art by J.D. Smillie), 10 pesos, PS210.
Industry and Railroads, 10 pesos, PS454.
Justice, 100 pesos, PS349.
La Critique (see F. Girsch), 5 pesos, PS155.
La Siesta, 50 pesos, PS260.
Liberty, 50 pesos, PS456 and 1,000 pesos, PS335.
Literature (female reclining), 5 pesos, PS257.
Minerva, 500 pesos, PS395.
Mining Scene (eng. with J. Smillie), 500 pesos, PS404.
Peace, 5 pesos, PS233.
People at Well (art by J.D. Smillie; eng with C. Rost), 20 pesos, PS165.
Seated Indian, (eng. with J.P. Ourdan), 50 pesos, PS212.
Struck it Rich, 2 pesos, PS256.
Urania (eng. with L. Delnoce), 50 pesos, PS166 & 500 pesos, PS262.
Wreath, The, 10 pesos, PS384.

Nicaragua
Liberty, 10 cordobas, P79.
Paraguay
Female with Fasces, 1,000 pesos, P63.
Female with Globe (eng. with L. Delnoce), 50 pesos, PS150.
Peru
Abundance, 50 soles, PS168.
Communication, 20 soles, PS244.
Female Head, 2 soles, PS362.
Female Head in Rays, 100-1,000 pesos, PS353-355.
Rebecca at the Well (eng. with J.D.S. Smillie), 2 soles, P2A.

Foreign Bank Notes

(continued)

Peru

Roses, 1 libra, P26, P37, P49 & P67.

Rubber Tree Worker, 10 libras, P28.

Uruguay

Female and Flags, 10 pesos, PS212.

Uruguay

Girl Leaning on Haystack, 20 pesos, PS386.

Venezuela

Rebecca at the Well (eng. with J.D.S. Smillie), 40 bolivares, PS219.

Corporate Bonds

Arms of Massachusetts (art by A. Jones): Vermont & Massachusetts RR (1883); Old Colony Steamship Co. (1881).

Arms of New Hampshire (art by A. Jones): Boston, Concord & Montreal RR (1881); Concord & Montreal RR (1890).

Eagle on Shield, American Can Co. 5% sinking fund cp. debenture (1913).

Electricity (cupid; eng. with J. Smillie), General Electric Co. 5% cp. deb. (1912).

Electricity (woman; eng. with J. Smillie), General Electric Co. cp. deb. (1912).

Electricity (Nike), Buffalo General Electric Co. 5% 1st refunding cp. bd. (1909).

Electricity (woman and child), Butte Electric and Power Co. 5% 1st mort. cp. bd. (1901); Nassau Electric RR Co. $1,000 consol. mort. 4% (due 1951).

Female, Tytus-Gardner Paper & Mfg. Co. (1893).

Female (leaning on hay; art also by A. Jones): Frankfort & Kokomo RR $1,000 7% 1st mort. (1879); Shaffer Oil & Refining Co., reg. & cp. bds. (1930).

Flagman, B&O RR Co. Pittsburgh Junction & Middle Div. 3½% (1898); Gouverneur and Oswegatchie RR Co. 5% 1st mort. cp. bd. (1892).

Great Eagle (art by W. Croome): American Bell Telephone Co.; Solvay & Co.; Sun Oil Co.

History, Marietta Railway Co. 4% (1896).

Industry & Agriculture (The art by P. Thurman also appears on Germany 100 marks, P33.), Colorado Midland Rwy $1,000 1st. mort. 4% (1897).

Justice: City of Boston; Pine Creek Rwy., both reg. bds.

Justice and Civilization, Southern Rwy Co. 5% 1st consol. mort. reg. bd. (1894).

Liberty, Southern Rwy Co. 5% 1st consol. mort. reg. (1894).

Liberty (on coupon), Kentucky & Indiana Bridge and RR Co. 4% cp. bd. (1900).

Mining Scene (eng. with J. Smillie), New Mexico Rwy & Coal Co. 5% 1st consol. mort. cp. bd. (1901).

Railroad Workers, Little Miami RR Co. 7% betterment cp. bd. (1892).

Rebecca at the Well (art by F.W. Edmonds; eng. with J.D. Smillie), Wyandotte Water Co. (1887).

Sugar Cane Press (art by H.W. Herrick; eng. with J.D. Smillie), American Sugar Refining Co. (1891).

The Vintage (art by F.W. Edmonds; eng. with H.S. Beckwith), Citizens Traction Co. (1887).

Stock Certificates.

Abundance: Copper Knob Mining Co. (1880); Pullman's Palace Car Co. (1881).

Agriculture (seated woman), United Fruit Co.

America (art also by A. Jones), Thames Bank & Trust Co.

Arms of Connecticut (art also by A. Jones), Thames Bank & Trust Co.

Arms of Maryland, Maryland Trust Co.

Cleopatra (adapted from art by Hans Makart), Consolidated Cigar Corp. preferred stock.

Cupid Disarmed, Life Savers Corp.

Female (leaning on hay; art also by A. Jones): American Trading Co. (1919); Diamond Match Co.

Female, Child and Lion, Eastern Elevator Co.

Female with Globe and Cupid: American Meter Co.; Gimbel Bros., Inc.

Female with Globe and Lyre, Childs Restaurant.

Great Eagle (art by W. Croome), Eagle Pitcher Co. (1945).

History, Marietta Rwy Co. 4% 1st mort. cp. bd. (1896).

Incandescence No. 2, Commercial Light & Power Co. of Duluth (1891).

Industry & Agriculture (The art by P. Thurmon also on Germany 100 marks, P33.) General Foods Co.

Industry & Railroads (see W. Jung), Torrington Co.

Literature, Coca Cola Co.

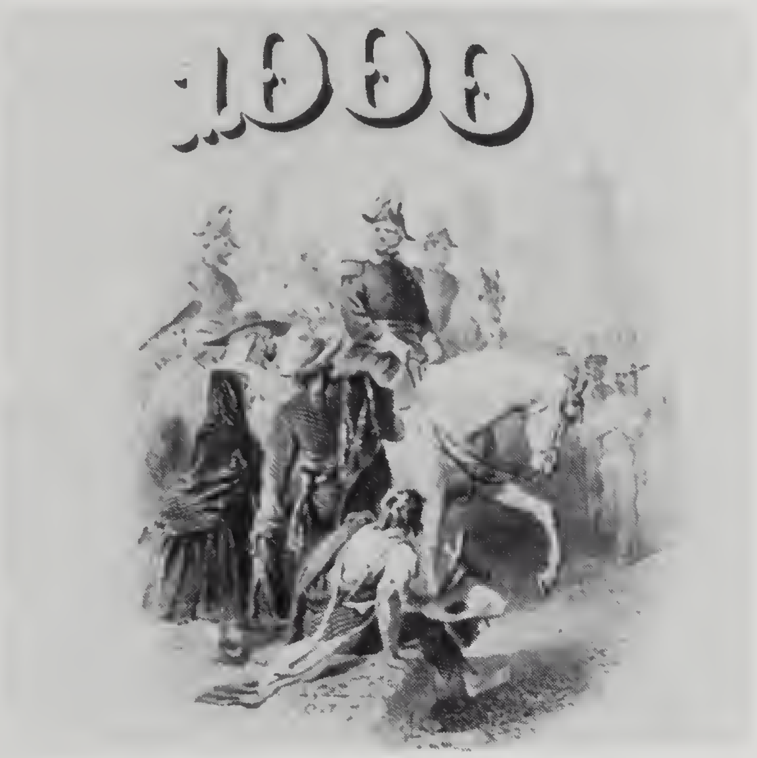
Milking Cows (art by Darley; eng. with J.D. Smillie), Plata Verde Silver Mining Co. (1879).

Peace (woman & two children), Best Foods, Inc.

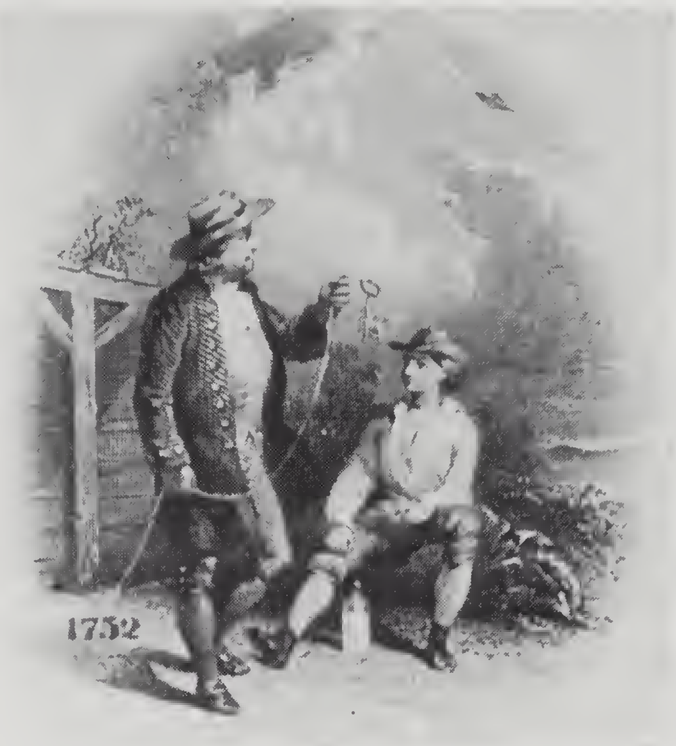
Rubber Tree Worker, Hood Rubber Co.

Struck it Rich: Amador Pacific Gold Mining Co. (1882); Menlo Gold Quartz Co. (1881); State Lind Gold Mining Co. (1881).

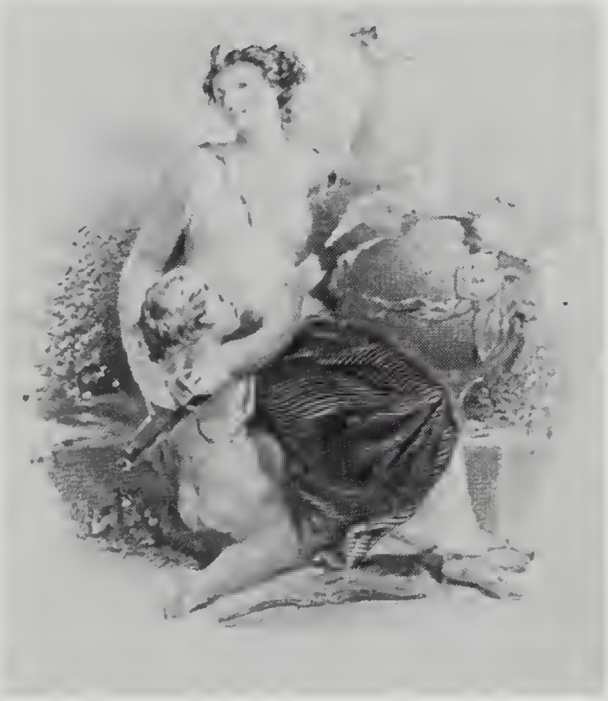
Engravings by Alfred Jones



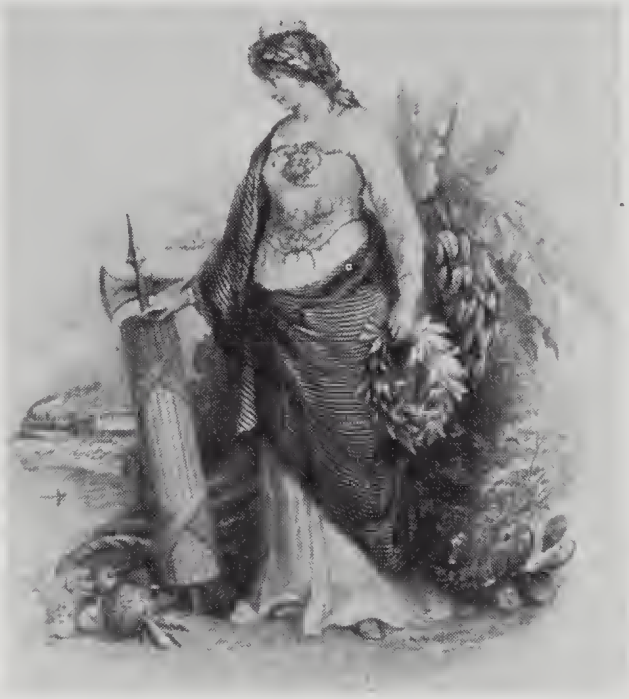
General Scott's Entrance into Mexico, $100 NBN, H1403 & H1404.



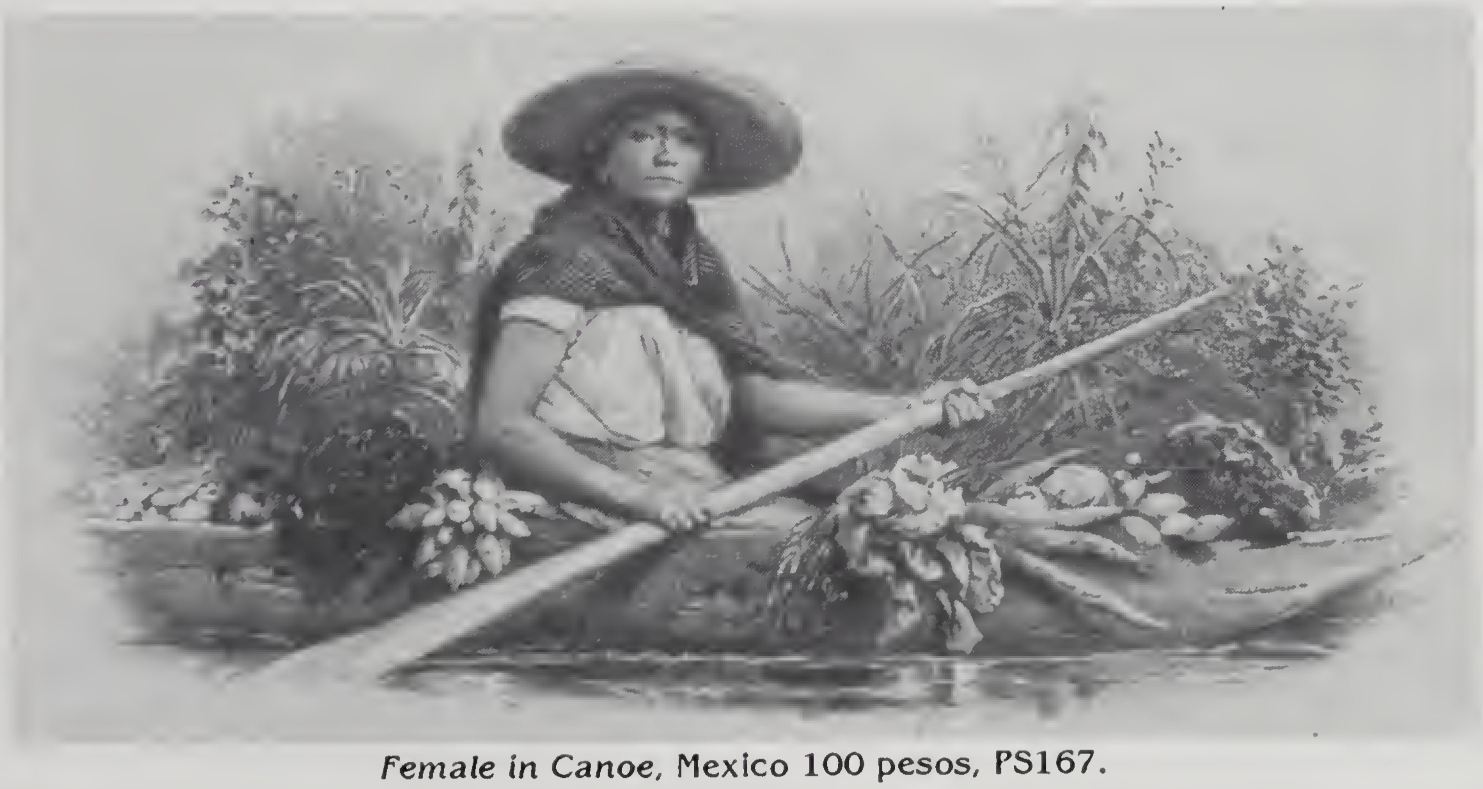
Franklin and Electricity, $10 US, H509.



Cupid Disarmed, Argentina 5 pesos, PS678.



Female with Fasces, Mexico 20 pesos, PS322.



Female in Canoe, Mexico 100 pesos, PS167.

Stamps

Argentina
Lopez, 2¢, A20.
Canada
Prince Albert, 6¢ & 12¢, 1851.
Queen Victoria, (1870).
Hawaii
Princess Kamamalu, 1¢, A12.
Kamehameha V, 6¢, A15.
Queen Kaleleoalami, $1, A24.
Princess Likelike, 1¢, A19.
Honduras
Morazan, 1¢, A4.
Venezuela
Bolivar, Simon, A11-15.

Miscellaneous

Arms for Ft. Orange Club (1896) and Maryland (1894).
Industry & Agriculture (The art by P. Thurmon also appears on Germany 100 marks, P33.) Irish Free State $1,000 bond (1921).
Justice & Eagle, Fairbanks Co. checks (1892).
Peace (art by H.W. Herrick), Agricultural NB certificate of deposit (1882).
Washington at Trenton, U.S. Postal Panel (art by Darley; 1975).

JONES, Benjamin. *Eng.* He was active in Philadelphia from 1798 to 1815 and was living as late as 1837.

JONES, George T. *Eng.* b. (PA ?) 1818, d. Washington, DC ca. 1873. He was with Rawdon, Wright & Hatch from 1834 to 1847, serving as superintendent of the Cincinnati branch in 1842. In 1867 Jones was the vice-president of the Columbian BNCo. Three postage stamp patents, Nos. 54,838, 54,835, and 101,020, are registered in his name.

JONES, Herbert. d. 2 Oct. 1945. He was employed at American BNCo between 11 August 1901 and 1 Nov. 1943. Jones was Superintendent of Engraving at ABNCo.

JONES, Richard. *LtEng.* b. ca. 1924. He is employed at Jeffries BNCo, now owned by USBN Corp.

JONES, Robert Joseph. *LtEng.* b. Bellevue, IA 10 Apr. 1922. He was educated in art in Pennsylvania, Missouri and the District of Columbia, including Villanova, the Corcoran Gallery School of Art and the Columbia School of Commercial Art. After duty with the U.S. Navy during World War II he returned to the U.S. Government Printing Office, where he had worked in 1942. On 8 Mar. 1948 Jones began his apprenticeship at the Bureau of Engraving and Printing; precisely five years later he was named an engraver. Mr. Jones retired in October 1972.

JONES, William R. *Eng.* He was working in Philadelphia from 1810-1824.

JOSEPH, _____. *Trans.* (see Amendt.)

JOSEPH, Samuel. *Eng.* b. ca. 1837. He was working in Philadelphia in 1860.

JUNG, William. *PEng.* b. ca. 1895, d. 22 Feb. 1950. He began his employment at American BNCo on 18 Feb. 1912. During part of his time with ABNCo he served as Assistant Superintendent of Engraving.

Foreign Bank Notes

Brazil
Female Seated (background by H. Osborn), 20 cruzeiros (back), P168.
Gloria Hill, 20 mil reis, P104.
Proclamaçao de Republic (background by H. Osborn), 20 mil reis (back), P136.
Canada
Bog, W. (eng. with E. Gunn), $10 & $20, PS559 & PS560.
Mining, $10, PS633.

Foreign Bank Notes

(continued)

China

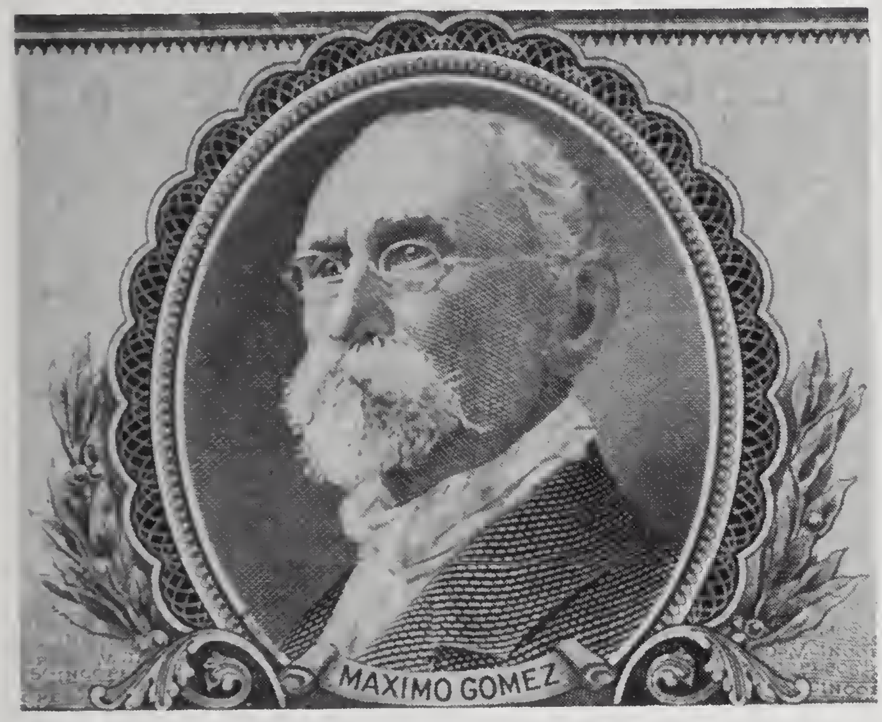
Chiang-Kai-Shek (eng. with W. Ford), 1, 10, 50 & 100 yuan, P387, P390, P393 & P394.

Chinese Summer Palace, $1, $5 & $10, PS1601-1603.

Tomb of Sun Yat-sen, $5, P200.

Costa Rica

Ramirez, O.J., 20 colones, P206.



Cuba

Gomez, Maximo, 5 pesos, P78.

El Salvador

Farmer Plowing (eng. with W. Ford): 1 colon, P71 & P83.

German Federal Republic

Industry and Railroads (the original, by A. Jones, was reduced, photoengraved and reworked by W. Jung), 20 marks, P6 & P17.

Greece

Ornamentation & "500", 500 drachmai, P102.

Scroll work, 5,000 drachmai, P103.

Guatemala

Maya-Spanish Conflict, 5 quetzales, P93.

Iran

Man with Wings, 1,000 rials (back), P30.

Mount Demavand, 500 rials, P23.

Nicaragua

Sugar Cane Scene No. 2, 2 cordobas, P51.

Paraguay

Banco de la Republica Paraguay, 50 & 100 pesos, P73-76.

Poland

Dunajec River, 50 zlotych (back), P88.

Turkey

Fountain of Ahmed III, 10 lira (back), P87 & P88.

Corporate Bonds

Arms of Norway (figures by W. Jung), Kingdom of Norway cp. bd. (1924).

Female Portrait (finished by R. Savage), Cuba RR Co. (1926).

Map-Dutch East Indies, Dutch East Indies cp. bd. (1923).

Mining, Southeastern Fuel Co. cp. bd. (1925).

Hawaiian Electric Co. Symbol, cp. bd. (1924).

Heads (on coupons): Illinois Central RR (1926); Chicago Milwaukee, St. Paul & Pacific RR (1927); Cuba Cane Products Co. (1930); Illinois Power Co. (1956); NY Edison Co. (1924); Public Service Corp. of NJ.

Railroad Station, Southern Pacific (1927); Missouri Pacific RR; Penn. OH & Detroit RR (all coupon bonds, 1927).

Stock Certificates

American Iron & Steel Works, Jones & Laughlin Steel Corp (1923).

Male Allegory (eng. with E. Loizeaux), General Fire Extinguisher Co. (1925).

Neptune, Neptune Meter Co. (1924).

Steamship, Central NB of Cleveland (1926).

Taxi, Chicago Yellow Cab Co. (1924).

Wheels, Hayes Wheel Co. (1922).

Miscellaneous.

Borno, Haiti 50¢ stamp, A48.

Delta Kappa Epsilon Arms, Certificate of Membership (1924).

Flagship over Downtown New York (1938), Eaton Paper Co.

Heras, M. (eng. with E. Gunn), Peru 4¢ stamp, A66.

K

KARCICH, George. *Art & Des.* b. Mali Losing, Yugoslavia 7 Sept. 1951. He came to the U.S. in 1963 and attended Roosevelt School in Union City, and Memorial High School in West New York, NJ. Mr. Karcich, a watercolorist, attended Newark Fine & Industrial Arts School. After working as a commercial artist he joined American BNCo in 1982. Karcich has designed bank notes for: Bolivia, El Salvador, Haiti and Peru. He now does design work for the ABNCo Holographic Division.

KASLEY, Hugh. *LtEng & PEng.* He began his career with Tiffany & Co. serving his apprenticeship under Rudy Bartel. In 1965 Mr. Kasley joined the Bureau of Engraving and Printing where he has engraved and supervised engraving of all types. At one time he was the sole engraver of Presidential invitations and stationery.

KAUFFMANN, Leo C. *PEng.* b. NYC 28 March 1899, d. 1 May 1973. On 29 April 1924 in the Supreme Court of the District of Columbia, the names of Leo C. and Elva Kaufman were changed to Kauffmann. He studied for six years at the Corcoran Gallery School of Art. Kauffmann began his career at the Bureau of Engraving and Printing as a plate cleaner on 19 Oct. 1916. He began his apprenticeship as an engraver on 20 Oct. 1918; he was named an engraver exactly two years later; on 29 April 1924 he was named a picture engraver. Kauffmann moved to American BNCo on 15 Feb. 1926 and remained until 12 July 1934 when he was let go due to a lack of work. He returned to the BEP and after his retirement on 31 October 1942 Kauffmann once again returned to ABNCo, where he was employed for eight years. For one year he was also affiliated with the General Bank Note Co. in New Rochelle, NY. Kauffmann was greatly respected by his colleagues. He engraved over 25 postage stamps at the BEP.

Foreign Bank Notes

Brazil
Female Seated (background by C. Dawson), 50 cruzeiros (back), P137.
Industry (man kneeling; background by H. Osborn), 10 cruzeiros (back), P135.
Costa Rica
Castro, J.M., 100 colones, P212.
Escalante, M.O., 50 colones, P211.
Cuba
Aquilera, A., 100 pesos, P92.
Iniquez, C.G., 50 pesos, P81.
Dominican Republic
Sanchez, 5 pesos, P19 & P27.
El Salvador
Delgado Addressing Crowd, 5 colones, P93.
Guatemala
Firma del Acta de la Independencia, 20 quetzales (back), P95.
Landivar, R., 20 quetzales, P95.

Iran
Scroll work, 50 rials, P21.

Turkey
Buglers, 1,000 lira (back), P86.
Workers, 500 lira (back), P85.

Buglers, Turkey P86.

Stock Certificates

Aviation No. 9 (Female and Mercury; reworked in 1954; see R. Savage).
ROHR Aircraift Corp.
Chemistry (Crosman artist), Nalco Chemical Co.
Electricity (Crosman artist), Green Mountain Power Corp.
Female & Male (with Globe) (Crosman artist), Airco, Inc.
Pipeline No. 1 (J.F. Carlson artist; J. Keller etcher), Atlanta Gas Light Co.
Shell Oil Symbol, Shell Oil Co. (1959); also on deb. bd. (1961).
Utilities (woman standing), Michigan Gas Utilities Co.

Miscellaneous

Cobb, Howell, Internal Revenue Stamp.
Stock Transfer Stamps: *John A. Dix*, *Samuel D. Ingham*, and *William Windom*.
Story of American Bank Note Co.: *Warren G. Harding*, *Herbert Hoover* and *Surkano*.
Washington Park Arch on cover of *American BNCo Annual Report*, 1976.

KAVAKOGLU, Emre. *Art & Des.* His higher education took place at Middlesex Polytechnic and East Ham College of Technology in England, and at Long Island U., NY. From 1980 to 1986 Mr. Kavakoglu was employed as a commercial artist and art director in England and the U.S. His free-lance work includes book jacket designs. From 1986 to 1989 he worked at ABNCo as a designer of bank notes and other security documents.

Stock Certificates

Alliance Capital Management, L.P.
National City Corp.
Sterling Chemicals.
Sotheby's Holdings, Inc.
Quanex Corp.
Whitman Corp.

KEARNEY, Francis. *Eng.* b. Perth Amboy, NJ 23 July 1785, d. 1 Sept. 1837. He studied drawing at the Columbia Academy of Painting in NYC. In that same city he served his apprenticeship under Peter Maverick; he engraved in NYC from 1798-1801. Kearney moved to Philadelphia in 1810 where he became a member of Pendleton, Kearney & Childs. For three years, commencing in 1820, he was with Tanner, Vallance & Kearney and their successor Tanner, Kearney & Tiebout. By 1835 he was engraving independently.

KEARSE, Herbert W. *Art & Des.* b. Chicago, IL 27 Sept. 1943. He attended high school and the Pratt Institute in NYC and Howard U. in Washington, DC. Following advertising and corporate graphic design, Mr. Kearse joined ABNCo in 1973 where he designs bank notes and other security documents. The 1988, Haiti 10, 250 & 500 gourdes, P247, P251 & P252 are his designs.

KEATINGE, Edward. *PEng.* b. England, d. New York City ca. 1870. He was employed by the southern branch of ABNCo in New Orleans. After the Civil War began he joined Leggett & Ball, which became Keatinge, Leggett & Ball. Leggett was accused of being a Union spy and was forced out of the company. Keatinge & Ball moved their facilities to Columbia, SC in 1862, and with ten hand presses this company became the principal producer of CSA currency.

Confederate States of America Bank Notes

Davis, Jefferson, $50, P37.
Hunter, R.M.T., $10, P23 & 24.
Memminger, C.G., $5, P16 & 17.
Stevens, Alexander, $20, P34.

KEATINGE & BALL (see preceding).

KEEFE, John H. *LtEng.* d. ca. 1954. He was employed at American BNCo from 25 September 1917 until 5 April 1918. Keefe was also employed at the Bureau of Engraving and Printing.

Joseph Keller, a self-portrait.

Captain E.C. Kittle

Edwin Lamasure

Homer Lee

Kenneth Kipperman

William Marks

KEENAN, William. *Eng.* He was working in Philadelphia from 1830-1833. Keenan then moved to Charleston, SC and was located at 132 King St. His name, as engraver, appears on State of Alabama notes of 1864.

KEESEY, Robert. *LtEng.* b. Philadelphia 1859, d. 1930. He first worked at the Philadelphia office of American BNCo, later, on 12 June 1916, Keesey moved to the NY plant and became Foreman of the Letter Engravers.

KEIM, Otto. *ScrpEng.* d. 11 Jan. 1940. He began his employment at American BNCo on 22 Oct. 1892.

KEIMER, Samuel. *Pr.* b. England, d. Barbados ca. 1739. He came to Philadelphia in 1723 and hired Benjamin Franklin as a journeyman to put his printing equipment in order. Keimer signed a contract to print NJ bills of credit; Benjamin Franklin was appointed to execute it. Franklin returned to Philadelphia and opened his own printing shop. This competed with Keimer, who, ca. 1729, sailed for Barbados. In Bridgetown he published The *Barbados Gazette* (1731-1738). The opening lines of "The Sorrowful Lamentation" printed in the *Gazette* is an example of his poetry:

What a pity it is that some modern Bravadoes,
Who dub themselves Gentlemen here in Barbados.
Should, Time after Time, run in Debt to their Printer,
And care not to pay him in Summer or Winter! (Thomas 605).

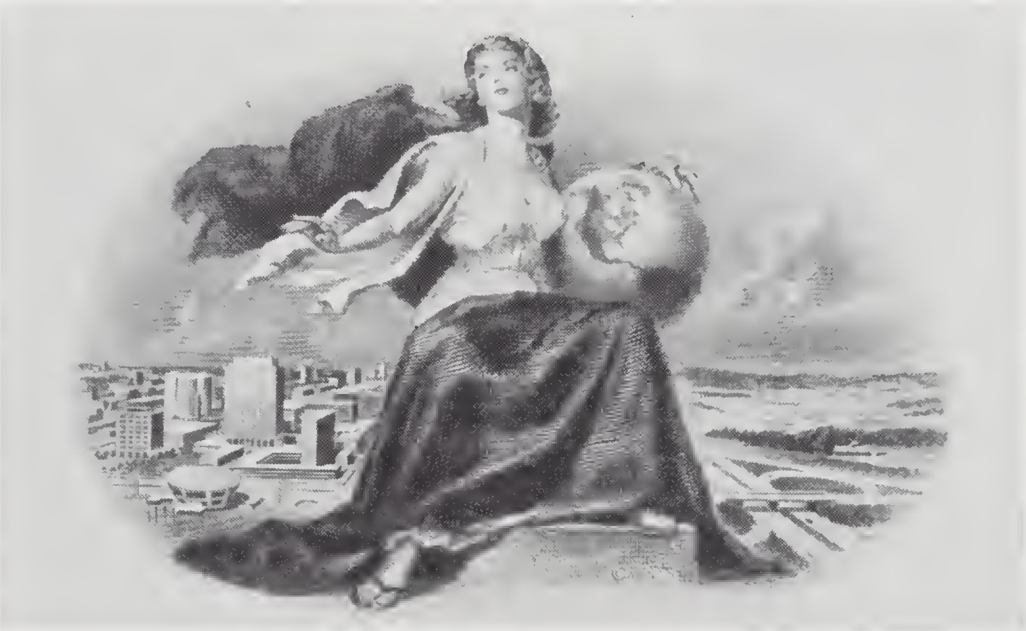
KELLER, Joseph. *Art & PEng.* b. Bronx, NY 19 May 1903. d. Toms River, NJ 1987. He studied art at night at Morris High School and the National Academy of Design. On 20 September 1918, following primary education at Immaculate Conception School in the Bronx, Mr. Keller began as a burnisher (plate cleaner) at ABNCo. After five years, his supervisor finally showed the drawings, submitted when Mr. Keller applied at ABNCo, to Robert Savage, Chief of the Engraving Division. "It took Mr. Savage five minutes to call me in and tell me to start in the picture room" the following day.

The sensitivity of Mr. Keller is reflected in his etchings and engravings. "This (*Trinity Church*) you can be justly proud of," wrote fellow engraver H. Osborn in a letter of 9 January 1959. "The skill, feeling and tenderness consistently manifested throughout the ambitious undertaking is characteristic of your sensitive nature." Mr. Keller was respected by all his other colleagues. He retired ca. 1970. During the early days at ABNCo, George Bridgman from the Art Students' League was engaged by ABNCo as anatomy instructor. A drawing by Mr. Keller, as a student, appears in *Fifty Figure Drawings*, a book that demonstrated the best work by students at American art schools.

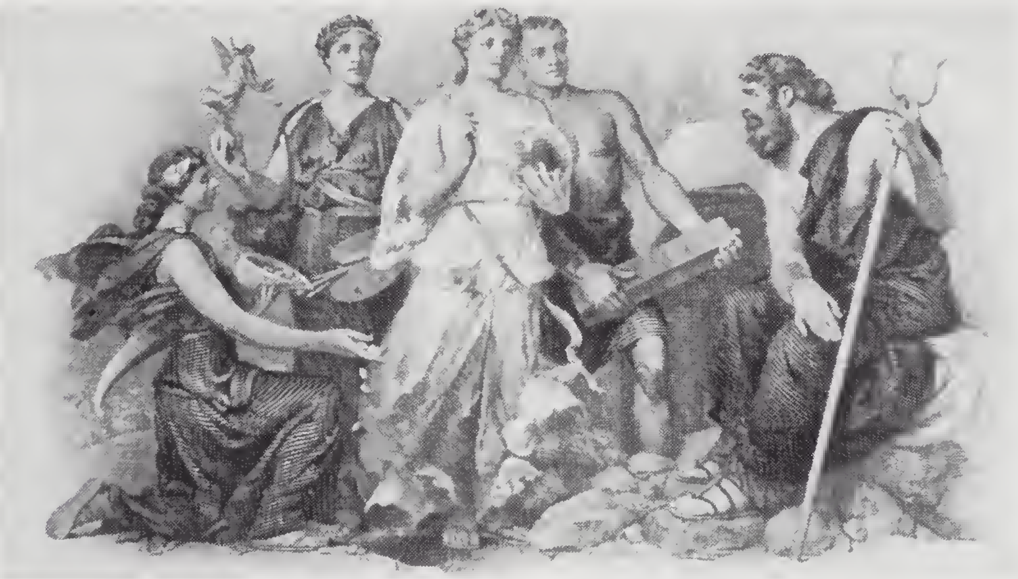
Foreign Bank Notes

Amazonia, Brazil 5 cruzeiros (back), P134 & P142.

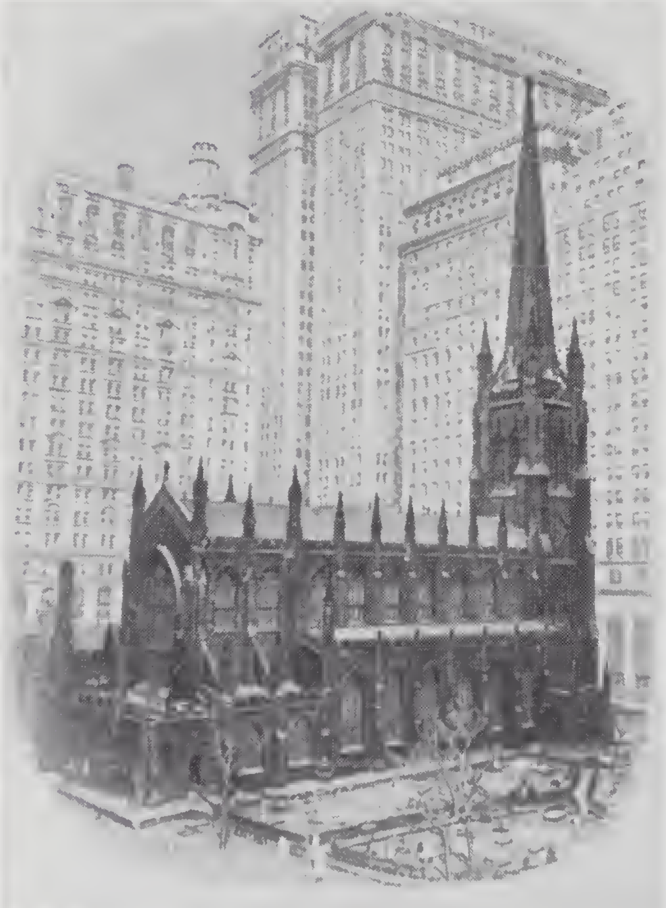
Engravings by Joseph Keller



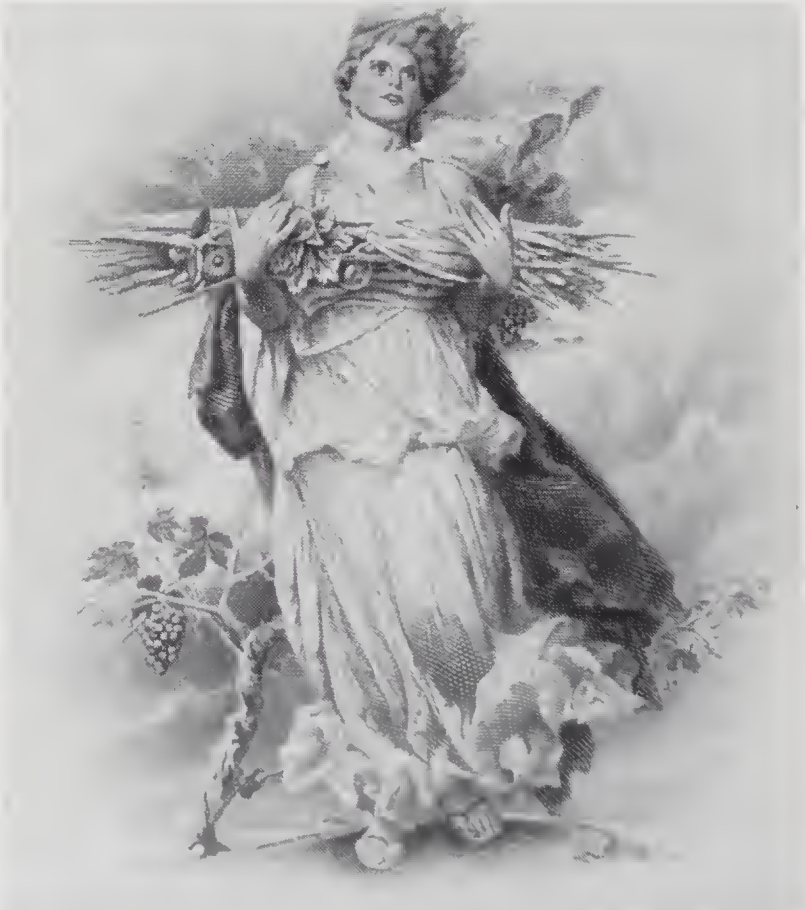
Female and Globe (see stock certificates).



Wealth (see stock certificates).



Trinity Church (see stock certificates).



Agriculture No. 5 (art by A. Foringer; eng. with S. Smith; unused).

Foreign Bank Notes

(continued)

Brazil

Cultura Nacional (etching by J.Keller; eng. A.C. Vogel), 100 cruzeiros (back), P138, P146, P162 & P170.

Escola Militar de Rezende 2 cruzeiros (back), P133, P151 & P157.

Escola Naval (eng. with C. Dawson), 1 cruzeiro (back), P132 & P150.

Tiradentes ante O. Carasco, 5,000 cruzeiros (back), P174 & P182.

Costa Rica

Banco Central de Costa Rica, 1,000 colones (back), P226.

Curacao

Ships-Aruba, 10 gulden, P26.

Dominican Republic

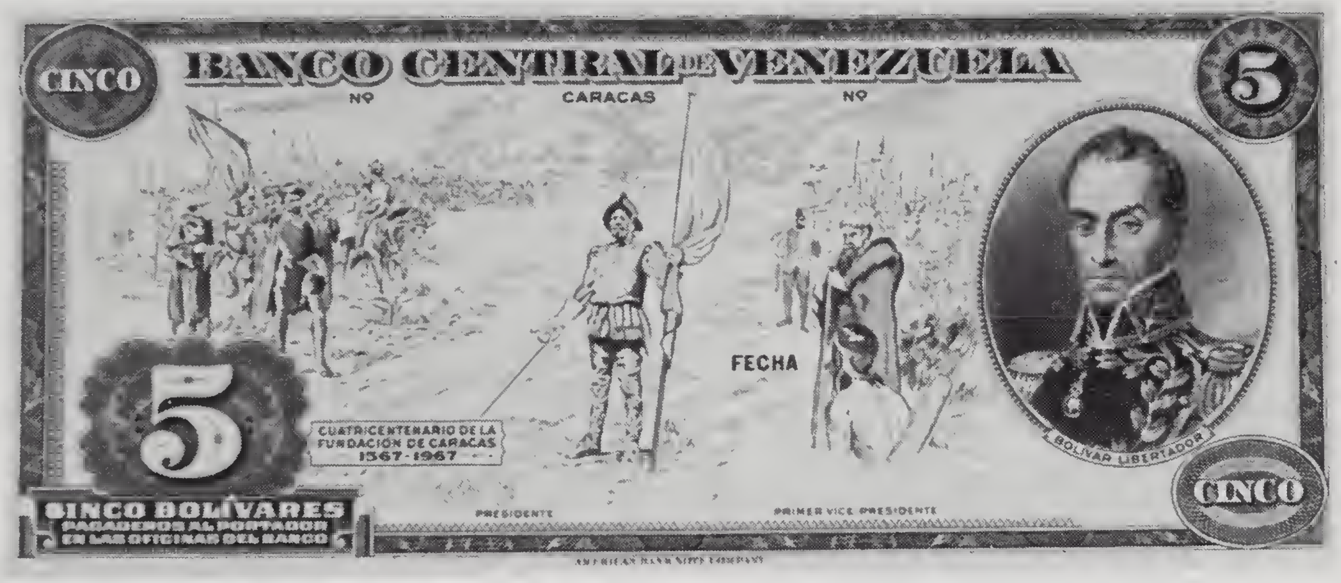
Basilica Menor de Santa Maria, 1,000 pesos, P25.

French Indochina

Churuq of the Sea (Angkor Wat frieze), 50 piastres (back), P77.

Iran

Scrollwork: 5 rials (face & back), P18; 10 rials (back), P19; 100 rials (back), P22; 500 rials, P23.


CINCO
BANCO CENTRAL DE VENEZUELA
Nº
CARACAS
Nº
5
FECHA
CUATRICENTENARIO DE LA FUNDACION DE CARACAS 1567-1967
BOLIVAR LIBERTADOR
5
CINCO BOLIVARES
PAGADEROS AL PORTADOR EN LAS OFICINAS DEL BANCO
PRESIDENTE
PRIMER VICE PRESIDENTE
CINCO
AMERICAN BANK NOTE COMPANY

Venezuela

Founding of Caracas, 5 bolivares, P49.

Valle de la Antigua, Guatemala 100 quetzales (back), P96.

Corporate Bonds

Bell, Pacific T&T (coupons, 1937).

Caduceus & Winged-Wheel (R. Lavin artist), First National Bank of Atlanta.

Child, Sears Roebuck Acceptance Corp (1956).

Female and Globe (R. Lavin artist), Cooper Companies, Inc.

Female Kneeling (R. Lavin artist), Dart Industries.

Railroad coupon bonds

Atlantic Coast Line.

W. Jersey & Seashore.

Stock certificates

Farmer, Building & Indian, State Bank of Albany, NY.

Federal Hall, New York City (1960).

Female (R. Lavin artist): Basic Resources International Ltd. (CanBNCo); the Singer Co.; SOHIO/BP Trans Alaska Pipeline; U.S. Life Corp.

Female, A.S.A. Ltd.

Female and Globe (R. Lavin artist): Atlantic Refining Co.; Basic Resources International Ltd.; Security Mortgage Investors; Transcoastal Industries Corp.

Female and Globe (eng. with W. Hauck; R. Lavin artist), CBT Corp.

Female in Space (R. Lavin artist), Houghton Mifflin.

Flying Horse, Mobil Oil Corp. (1966).

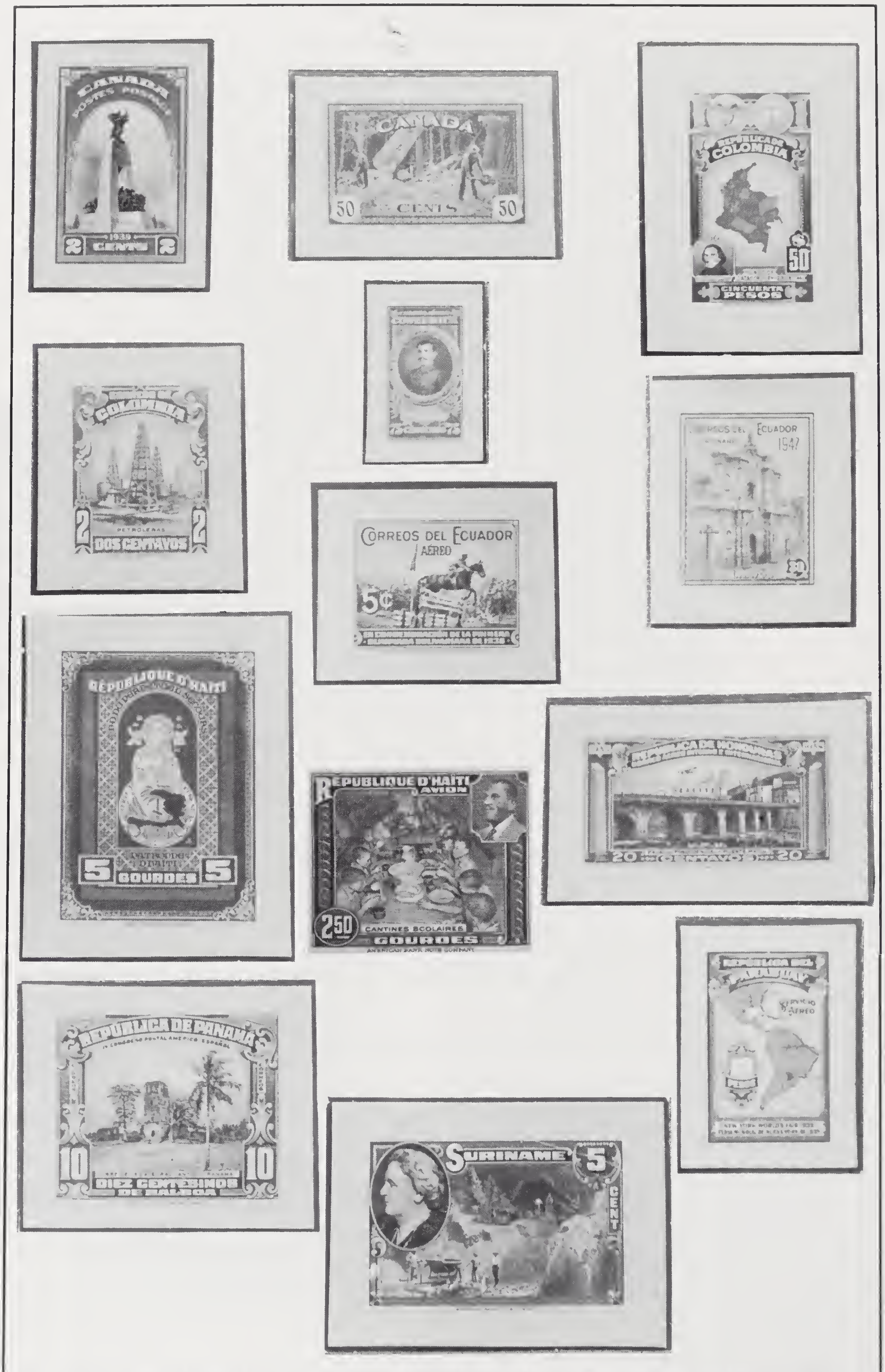
Grand Canyon, The (Indian at left), Arizona Public Service Co.

Indian, R.R. Donnelley & Sons Co.

Man Kneeling, Gannett Co. Inc.

Map, Ludlow Manufacturing Associates.

Sandpiper (male), Scot Lad Foods.



Die proofs of stamps engraved by Joseph Keller (see underscored numbers on list).

Stock Certificates
(continued)

Shoemaker, Melville Corporation.
Space Exploration: Houghton Mifflin Co.; Kaiser Industries (1969).
Swift and Co. Plant.
Trinity Church, New York City (1958).
Wealth (eng. with R. Savage), Fidelcor, Inc.

The Story of American Bank Note Company

Agriculture.

New York Stock Exchange, The.

Santa Fe, The.

Stamps

Canada
A79, A95, A111, A132 & A141.
Colombia
AP39, A155 & AP19 (C122).
Costa Rica
AP15 & A109 (C127).
Ecuador
A186 (C479), AP9, AP30, A171 & A186 (C480).
Honduras
AP64, A51 (C330), AP5 (C80) & AP27.
Haiti
A61 & AP20 (C60).
Nicaragua
AP14 (C236) & AP20 (C248).
Panama
AP9 (C23) 10¢ (similar to A99) & A67 (C282).

Paraguay
AP35.
Philippines
A79.

Surinam
A29 (C189 & C190).

KELSEY, William H. *LO*. He was employed at American BNCo in 1860.

KENDALL, W.H. *LtEng*. He was employed for six years at Republic BNCo after 1905.

KENDALL, George H. *Eng*. This engraver was working in NYC in 1872. In 1880 he formed the Kendall BNCo at 100 Church St. The company was operating as late as 1922 at 75 Sixth Ave., NYC. Kendall prepared the 1885, third issue, B&O Telegraph stamps, and the Cuban Revolutionary stamps of 1896 (2¢, 3¢, 10¢ & 25¢). The NYBNCo was the successor to the Kendall BNCo.

KENNEDY, A. He was in the General Engraving Division of American BNCo in 1911.

KENNEDY, James. *Des & LtEng.* b. Albany, NY ca. 1845, d. NYC 16 May 1930. After an apprenticeship in Albany, NY, this engraver, known for his speed, went to ABNCo on 18 Oct. 1881 where he remained until 1 Jan. 1892. Kennedy joined the BEP ca. Dec. 1893 and left there in Feb. 1899. He then returned to ABNCo and retired on 30 July 1927.

KENSETT, John W. *Art & Eng.* b. Cheshire, CT 22 March 1816, d. 1872. He learned to engrave from his father, Thomas, and his uncle, Alfred Daggett. For TCC&Co Kensett engraved a *Girl Picking Flowers*, which appears on The Elgin Bank of D. Clark & Co., IL $2 note, payable at Rome, NY. At age 22 Kensett went to Europe where he spent seven years studying painting in England, France, Germany, Italy and Switzerland. This Hudson River artist became a National Academician in 1849. Ten years later he was appointed to the Art Commission to supervise the decoration of the Capitol Rotunda. Kensett's paintings can be seen in the Metropolitan Museum of Art in NYC and the Corcoran Gallery in Washington, DC.

KENWORTHY, J.C. *LtEng.* He was engraving for the National BNCo as early as 1859 and perhaps as late as 1875.

KENWORTHY, Thomas C. *PEng.* He, along with Augustine L. Helm and Charles H. Smith, formed the short-lived USBNCo, not to be confused with a company of the same name formed by Alfred Jones. He was employed at American BNCo as early as 1859.

KERLEY, H.S. *ScrpEng.* He was employed at Central BNCo in the 1930s.

KERN, Allison R. *PEng.* This engraver was employed at the Security BNCo in the early to mid-20th century.

KERN, William R. *PEng.* He was employed by the Security BNCo ca. 1930.

KIHN, Charles Ernest. *Des, LtEng & Pr.* b. NYC 21 Oct. 1861, d. NYC 15 Nov. 1940. In the early 1880s, Kihn learned engraving from Walter Shirlaw at the Franklin BNCo. After a brief stay in St. Louis, as an engraver, Kihn went to the WestBNCo in Chicago. He then returned to NYC and worked for Peter Hall; when Hall died, Kihn assumed control of the business. In 1896, with his brother, C.E. & A.C. Kihn was formed; later it was called Kihn & Hall, and still later Kihn Bros. BNCo. In 1892 and again in 1932, Charles Kihn was invited to engrave in Russia. He had similar offers from Argentina, Canada and China. Australian government bonds issued about 1905 are the work of Kihn Brothers. About this time, Kihn Brothers purchased the Philadelphia BNCo and their predecessors, Butler & Carpenter, and, Toppan, Carpenter & Co. Kihn Brothers engraved revenue stamps for Mexico and Honduras. "Kihn bank Note Engravers" appears on an American Asbestos & Fireproofing $1,000 coupon bond (1906).

KING, Aaron. This proof printer was employed by Rawdon, Wright & Hatch.

KING, Arthur. *ScrpEng.* After engraving at the British American BNCo he came to American BNCo on 24 Feb. 1920. He returned to Ottawa in Dec. 1921, but was reinstated at ABNCo on 2 Oct. 1922.

KING, James S. *PEng.* b. NYC (?), d. Upper Montclair, NJ (?). He engraved for the Continental BNCo, then moved to the Bureau of Engraving and Printing in 1894.

KING, J.W. *Trans.* He was employed at the Republic BNCo ca. 1915.

KINNER, Richard. In July 1725 he was convicted of counterfeiting a 20 shilling bill of Pennsylvania. In addition to 31 lashes, Kinner was sentenced to have both ears cropped as he sat in the pillory. He was also to pay £100 and double damage.

KIPPERMAN, Kenneth. *PtEng.* b. Poland. He began his career at American BNCo in 1966. After two years in the U.S. Army he returned to study under Warrell Hauck. On 4 Nov. 1974 Mr. Kipperman moved to the Bureau of Engraving and Printing where he continues to engrave. He engraved the small official portraits of U.S. Presidents Ronald Reagan, George Bush, and numerous U.S. postage stamps.

KIRK, John. *PEng.* b. England ca. 1823, d. ca. 1862. He came to the U.S. ca. 1841. Kirk engraved illustrations for a variety of publishers. The *Wheel Wright*, a bank note vignette etched by this mid-19th century artist, is found on: The Union County Bank, Plainfield, NJ $3; Bank of Phoenixville, PA $5; Farmers & Mechanics Bank, Fond du Lac, WI $2.

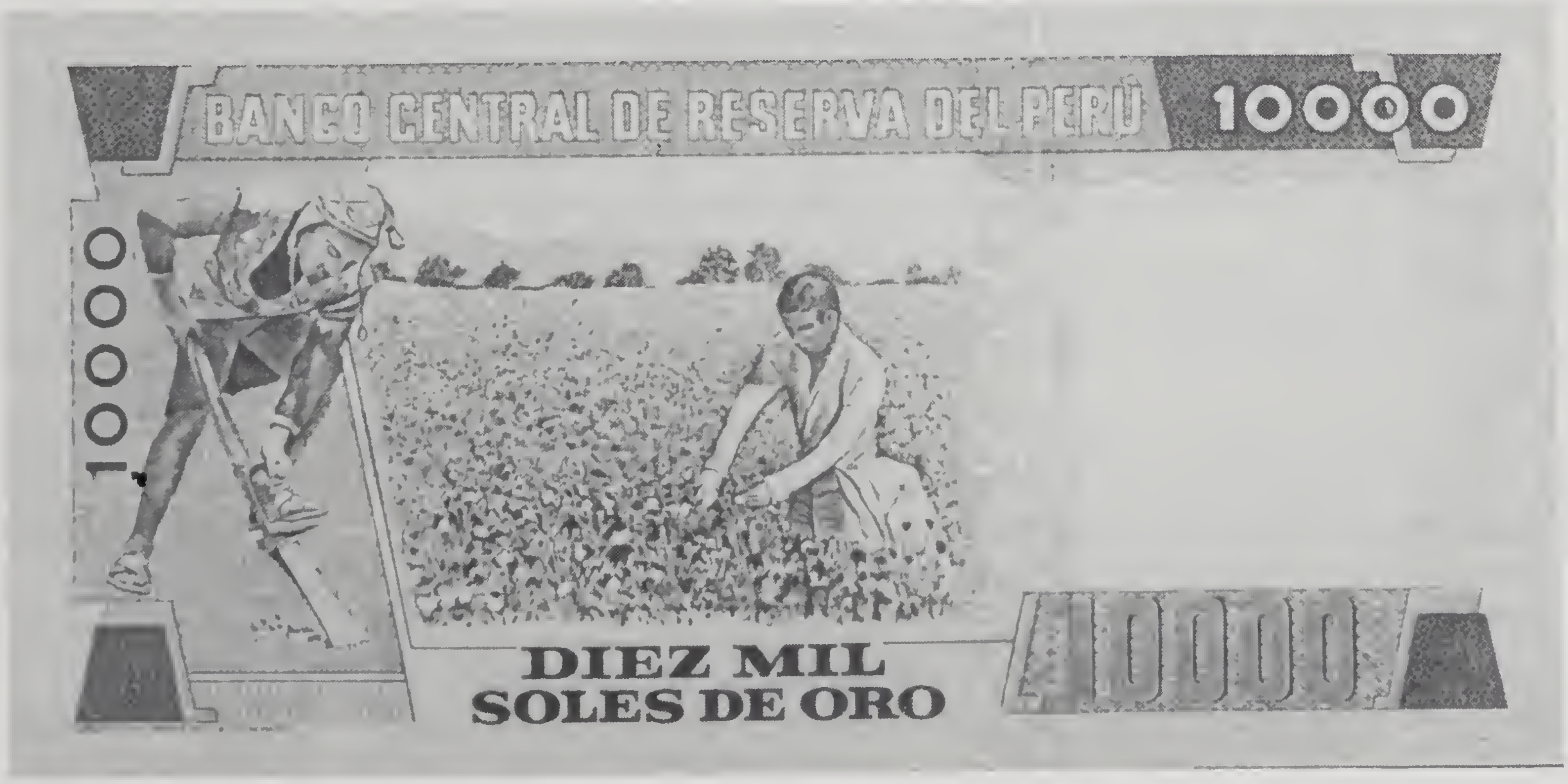
KIRK, John W. *LtEng.* On 15 Nov. 1917 he moved from the Chicago office of American BNCo to the NY facilities. After a two-year hiatus (1920-1922) from ABNCo, Kirk was let go on 21 May 1931 due to a lack of work.

KIRSTE(I)N, Charles. *Pant.* He was working at American BNCo as early as 1938 and as late as the 1950s.

KISELY, Jaroslaw. *PEng & PtEng.* b. ca. 1929, d. 1989. His apprenticeship began at American BNCo in 1947 under William F. Ford. Of the 54 pieces of art by R. Lavin for ABNCo Kisely engraved 14.

Foreign Bank Notes

Colombia
Salavarrieta, P., 2 pesos, P413.
Costa Rica
Corte Suprema de Justicia, 100 colones (back), 1987 P243.
Jimenez, Ricardo, 100 colones, 1987, P243.
Treaty Scene, 50 colones, P237.
Haiti
Catherine Flon Arcahaie, 1803 (finished by E. Cranz), 10 gourdes, P247.
Peru
Arms of Peru, 1,000-50,000 soles, P122-125.



Indian Digging & Woman with Flowers, 10,000 soles (back), P124.

Corporate Bonds

Communication (male figure; R. Lavin artist); L.F. Rothschild, Unterberg, Towbin Holdings.
Female (arms extended, R. Lavin artist), Duke Power Co.
Globe, Nordiska Investeringsbanken (1982).

Stock Certificates

(Unless noted, the art work is by R. Lavin.)

Boise Cascade Corp. Symbol (*Four Men in Lumberyard*), (1980).
Civilization (*Female & Globe*): Gulf Group Inc. (1973); Curtis Noll Corp. (1977).
Diamond Shamrock Corp. Symbol, (1982).
Eagle (with wings spread; unknown artist), Electronic Data Systems (1978).
E=Mc2 (art by Crosman), Jones & Laughlin Industries.
Female (art by Crosman), Best Products (1979).
Female (arms extended), Braniff International Corp.
Female Holding Skirt, E-Systems Inc.; Wang Laboratories.
Female Seated, The Plessey Co., Ltd.
Female Sowing, Wallace Business Forms, Inc.
Females (3) & Refinery (unknown artist).
Female Standing (before safe), LITCO Corp. of New York.
Female, Sword & Shield, Bank One Corp.
Goldome Building (unknown artist) (1984).
Industry (man & derricks; unknown artist), Texas Eastern Corp.
IT&T Symbol, (1979, 1980 & 1983).
Oil Wells, Charter Co. (also on company reg. bd. & warrant, 1979).
Pacific Telesis Group Symbol (male figure), (1984).
Power (Crosman possible artist; eng. with E. Cranz), Gates Learjet Corp. (1979).
Science (Renaissance man; unknown artist), Chemical New York Corp. (1977).
Taylor, Gen. C.H., Affiliated Pub., Inc. (1987).

Miscellaneous

Brooklyn Bridge — New York Skyline, International Plate Printers & Engravers Union Convention Book (1983).
Family at Amusement Park (unknown artist; 1988), Cedar Fair L.P. Department Receipt.
Clemente, Roberto, U.S. Postal Panel (1984).
Spacecraft, U.S. Postal Panels (1975).

KITTLE, E.C. (Captain). *Sid.* b. 28 Mar. 1832, d. 1902. He was employed by the HLBNCo, then moved to American BNCo ca. 1901. Kittle worked as a siderographer for the Bureau of Engraving and Printing at various times between 1866 and 21 August 1902 when he retired. In all, he spent 32 years at the BEP.

KITZ, Anthony. *PEng.* He was employed at American BNCo from 3 June 1926 to 12 July 1934. Kitz then moved to the Security BNCo. He is credited with the two female figures on the Gulf, Mobile & Ohio Railroad Co. stock certificate.

KNAPP, Joseph F. *Art & Lith.* In 1857 he joined Napoleon Sarony and Henry B. Major in the firm of Sarony, Major & Knapp, engravers and lithographers in NYC; he left the firm in 1867.

KNAPP, George Kasson. *D-S & Eng.* b. 1833, d. Syracuse, NY 9 May 1910. He was working in the bank note engraving industry in the 1850s.

KNAPP, Howard. *Art.* b. ca. 1902. He taught anatomy drawing at Mechanics Institute, which American BNCo apprentices attended. He was engaged by ABNCo to produce subjects for lithographic work.

KLINE & REYNOLDS. They printed small change notes dated 5 Sept. 1789 for Wray & Lamberton.

KNEELAND, Samuel. *Pr.* b. Boston ca. 1696, d. Boston 14 Dec. 1769. A partnership with Timothy Green II was dissolved in 1752. "Kneeland was, for a great length of time, printer to the governor and council, and during several years he printed the acts, laws and journals of the house of representatives" (Thomas 104).

KNIGHT, Charles R. *Art & Sc.* b. Brooklyn, NY 1874, d. NYC 15 Apr. 1953. He studied at the Art Students' League of NY and the Metropolitan Museum of Art. Knight contributed illustrations to magazines and painted murals for the Museum of Natural History; animals were his specialty. He made the sketch of the bison, Pablo, from which M.W. Baldwin made the engraving for the U.S. $10 USN, H483-491.

KNOX, Samuel. *Trans.* He was employed at American BNCo from 6 May 1929 until 24 March 1944.

KOFFIN, A.S. *Des.* d. 1904. He was working with the Western BNCo ca. 1871; he also designed for the John Lowell Co.

KOHLER, C.A. *LtEng.* In 1875 he was engraving newspaper, periodical and tax paid stamps at the Continental BNCo.

KOLLOCK, S. He printed small change notes dated 25 March 1790 for the Borough of Elizabeth, NJ.

KRAFT, Henry. This engraving-prover was employed at American BNCo from 1 April 1926 until 2 July 1931.

KRAMER, T. *Art.* This artist is credited with *Crossing the Pampas.* This vignette was engraved by Henry Beckwith for ABNCo; it can be seen on Argentina 20 pesos, PS1794 and many other notes.

KREIG, George. *LtEng.* He transferred from the Chicago office of American BNCo to the NY facilities on 6 May 1918.

KRITTER, William A. *LtEng.* b. ca. 1862, d. 26 May 1945. His career began in 1876 with the ContBNCo. He remained with ABNCo, after consolidation, until 1930 but retired on 1 October.

KUNER, (George Ferdinand Albrecht) Albert. *Art & Eng.* b. Bavaria, Germany 1819, d. San Francisco 23 Jan. 1906. In 1848 he came to the U.S. and settled in San Francisco; at that time he dropped part of his name. He was primarily a smelter and assayer of gold coins issued by private companies from 1850-1860 and possibly engraved some dies. Kuner engraved all the seals for Wells Fargo & Co. from 1852 until his death.

KURLEY, Harry. This engraver was employed at E.A. Wright in Philadelphia.

KUROBI, _____. *PEng.* This name appears in the records of Republic BNCo. Among other subjects this engraver executed a portrait of George Washington and the state arms for Maryland.

L

L.A. No. 2. *Trans.* (see Amendt.)

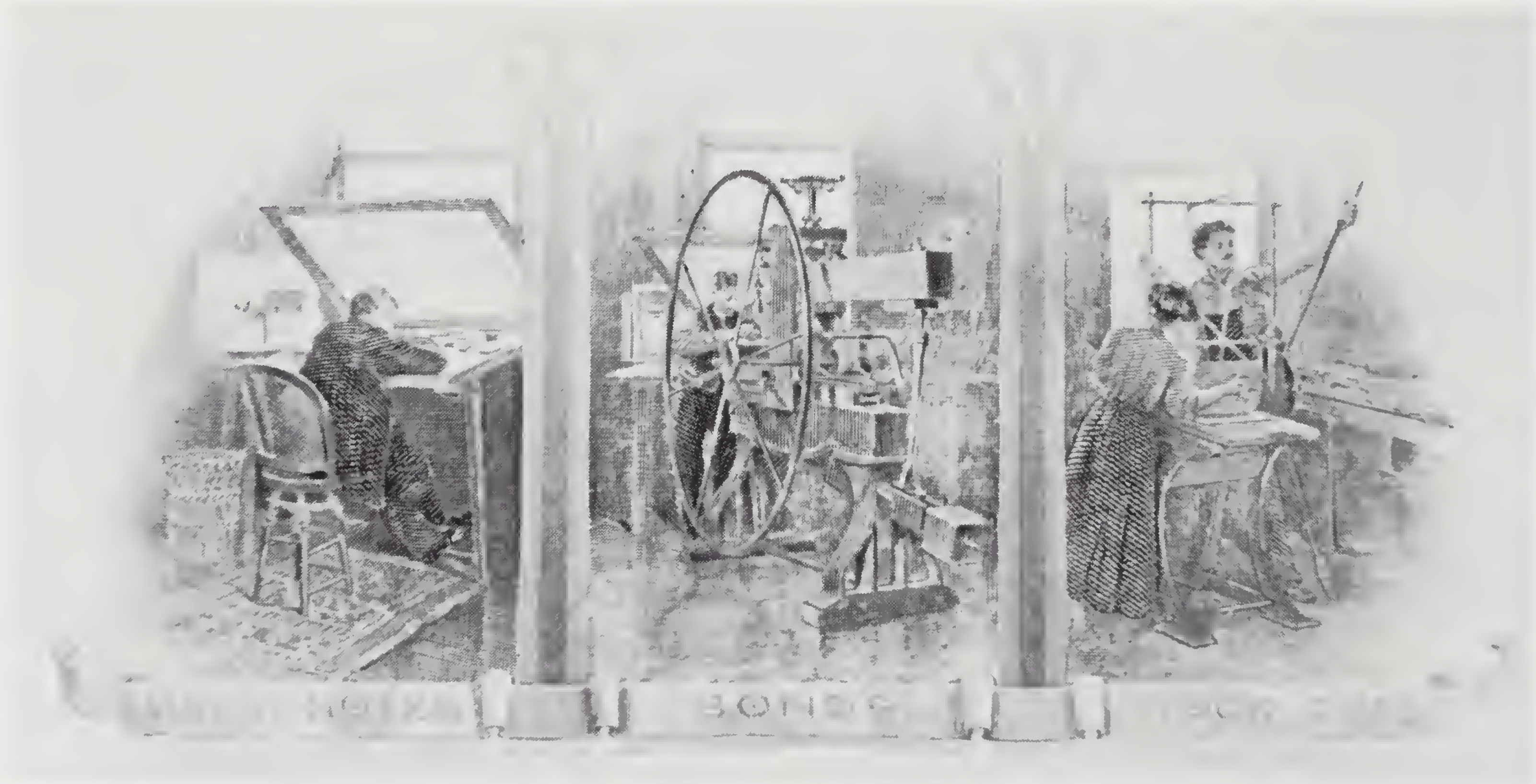
LAFTON, Frank. *Trans.* (see Amendt) His name appears only on the back of Confederate States of America bonds.

LAMASURE, Edwin. *Eng.* b. 26 May 1833. He joined the Bureau of Engraving and Printing on 1 Nov. 1877.

LAMASURE, Edwin, Jr. d. 22 Mar. 1910. He was office manager for J. Carpenter in Philadelphia until ca. 1875. He later went to the Bureau of Engraving and Printing in an unknown capacity.

LAMASURE, Frank. *LtEng & OrEng.* b. Philadelphia 31 May 1876, d. 26 June 1938. He came to the Bureau of Engraving and Printing as a plate cleaner on 28 Aug. 1896; he became an engraver on 13 July 1901. Lamasure resigned on 28 June 1906 to join American BNCo; he returned to the BEP on 1 Sept. 1908. He is one of eight engravers who executed the ornamental work on the 1935, $1, SC. It is possible that he also worked for the Western BNCo.

LAMBERT, George. *PEng.* b. 1854, d. 29 July 1946. He was at the Philadelphia office of American BNCo in August 1880; he moved to the New York office about 1916; he retired on 1 December 1936. Lambert was one of a few engravers who was allowed to work where he chose. He engraved *Bank Notes, Bonds, Stock Certificates*, a large vignette dated 1903 included in the 1987, ABNCo Archive Series.



Foreign Bank Notes

Brazil

Monumento do Ypiranga, 10 mil reis (back), P114 & P115.

China

Customs House – Shanghai, 10¢-500 custom gold units, P323-332.

China

Power Transportation (generator, zeppelin & plane), 25 yuan, P160.

El Salvador

Banco Agricola Comercial, 1-10 colones, PS109-112.

Corporate Bonds

Electricity: Toho Electric Power Co., Ltd. cp. bd. (1926); PA Central Light & Power Co. reg. bd. (1924).
Factory Scene, General American Investors Co. cp. bd. (1927).
First Stone Arch Railway Bridge in the World, B&O Railroad.
Fuller Tower in NYC, G.A.F. Realty.
Full Speed Ahead: Southern Pacific Co. (1928); Louisiana & Arkansas Rwy Co. (1929); B&O Rwy Co. (1930); Pennsylvania Rwy Co. (1930).
Power: Gulf Power Co. reg. & cp. bds. (1928): Georgia Power Co. (1927).
Shipping & Railway, Standard Milling Co. cp. bd. (1925).
Train: Pennsylvania RR (1924); Western Maryland Rwy (1927).
Train, Petroleum Corp. (1925).
Train, Reading & Co. reg. & cp. bds. (1923)

Stock Certificates

Construction and Industry (art by A. Foringer): L.C. Smith Corona Typewriter, Inc. (1926); Lehigh Portland Cement Co. (1927); South American Gold & Platinum Co. (1926).
Eagle, Kidder Peabody Acceptance Corp (1922).
Female Reclining with Globe (art by A. Foringer), Bloomingdale Bros. Inc. (1926).
Fuller Tower in NYC, G.A.F. Realty.
Gold Mine Scene No. 1: Keystone Copper Mining Co. (1931); National Tunnel & Mines Co. (1937).
Locomotive, Texas and Pacific Rwy Co.
Oil Wells, Standard Oil of CA (1921).
Power, Gulf Power Co. (1928).
Railroads, NY, Chicago & St. Louis RR (1925).
Train, Midland Valley RR (1923).

Miscellaneous

Building, Midland (MN) NB, check (1920).

LANCASTER, W. This Savannah printer printed Georgia notes dated 1778.

LANDER, Robert. *LtEng.* He was employed at the Bureau of Engraving and Printing.

LANDWEHRLE, Rudolph. *Trans.* After working for Kihn Brothers he joined American BNCo on 25 June 1928, probably as a transferer.

LANG, George S. *PEng.* b. Chester County, PA 1799. He served his apprenticeship under George Murray and could have engraved bank notes for Murray, Draper, Fairman & Co.

LaSALLE BNCo. This Chicago company was located at 216 W. Jackson Blvd. An undated brochure ca. 1920 mentions Herman Schreiner, Jr. and A. Charles Levine as owners. This company was capable of preparing stock certificates, bonds, warrants and checks.

LAUBENHEIMER, Ernest. *PEng.* He was employed at American BNCo from 1915-1918. He is the son of Rudolph P. Laubenheimer.

LAUBENHEIMER, Rudolph Phillip. *D-S & Eng.* b. Meisenheim-am-Glan, Hesse Hamburg, Germany 11 July 1833, d. 25 Feb. 1915. He studied in Holland before coming to the U.S. in June 1851. John Hoole, Sr. was his first employer. In 1858 this engraver was an independent cameo die-sinker. Laubenheimer is credited with engraving official seals for NC, NY, and Venezuela.

LAVIN, Robert. *Art & Des.* b. NYC 15 May 1919. He graduated from City College of NY in 1939 and attended the National Academy Art School. After serving as a U.S. Marine fighter pilot in WW II, Mr. Lavin illustrated for the *Saturday Evening Post*, *Reader's Digest* and other publications. He has exhibited at the Cleveland Museum of Art, the Smithsonian, the American Water Color Society where he is a member, the Whitney Museum in NYC and other major galleries. He is a member of the Society of Illustrators and the American Society of Marine Artists. Mr. Lavin's paintings are in the permanent collections of the

Smithsonian, the Air Force Museum and major corporations including Gulf Oil and National Steel. Since 1963 he has created 55 pieces of art work for ABNCo, most of these for bonds and stock certificates. For the use of individual subjects see E. Cranz, K. Guy, W. Hauck, J. Hay, L. Kauffmann, J. Keller and J. Kisely.

LAW, Asa. *Trans.* From 1847 to 1855 Law is listed as a machinist at 204 Washington, Street in Boston. He was employed at the Boston office of American BNCo in 1859 and as late as 1862.

LAWRENCE, Thomas. *Sid.* He was employed at American BNCo in 1861.

LAWRENCE, Walter. *ScrpEng.* From the International BNCo he joined American BNCo on 1 April 1900.

LAWSON, Alexander. *Eng.* b. near Ravenstruther, Lanaarkshire, Scotland 19 Dec. 1772, d. Philadelphia 22 Aug. 1846. He came to the U.S. in 1794 and was first employed by Thackara & Vallance in Philadelphia. It is uncertain if he engraved bank notes.

LEE, Homer. *Eng.* b. Mansfield, OH 1855, d. 26 Jan. 1923. He studied art in Europe and Canada; he received a bronze medal for painting at the Charleston Exposition in 1902. Homer Lee & Co. Bank Note Engravers was first listed in NYC Directories in 1873; in 1887 the company was listed as engravers and printers of U.S. Postal notes. In 1881 the name was changed to HLBNCo; an 1898 merger with the FrBNCo created the Franklin, Lee BNCo. Home Lee was elected as a member of the prestigious Salmagundi Club in 1895. His paintings received honorable mentions at the Vienna Exposition in 1873 and the Paris Exposition in 1900.

LEEDS, Lewis W. *Eng.*

LEGGETT, George. *LtEng.* Accused of being a Union spy, he was forced out of the company of Leggett, Keatinge & Ball, printers of CSA security paper.

LEITZY, _____. *Des.* This artist is credited with *Westward Ho*, an engraving by Frederick Girsch.

LENEY, William Satchwell. *PEng & PtEng.* b. England 16 Jan. 1769, d. Longue Pointe, near Montreal 26 Nov. 1831. After engraving in England he came to the U.S. in 1805. The Leney & Rollinson imprint can be found on notes for the Manufacturers' Exchange Co., Bristol, CT, the Eagle Bank, New Haven, CT, Georgetown Bank, DC and the Bank of Vincennes, IN. Notes for the Bank of the Metropolis, DC were prepared by Leney, Rollinson & Maverick. After considerable success as an engraver in the U.S., Leney moved to Montreal in 1820 and engraved the first bank notes for the Bank of Montreal.

LEO, _____. *ScrpEng.* He was employed at Republic BNCo.

LEONHARDT, THEODORE & SON. *Lith.* They operated in Philadelphia from about 1874-1922, one address was 922 Locust St. "The connection between Leonhardt and [E.A.] Wright, according to Fred [Schwan], was possibly that Leonhardt was a subcontractor doing various jobs for Wright..." (Shafer, July, p. 18). One of their sample book includes numerous, lithographed subjects that are definitely based on ABNCo engravings.

LeROUX, Charles. He engraved portions of notes dated 1734 and 1737 for New York.

LEUTZ, H.W. *Eng.* He was employed at the Philadelphia office of American BNCo in the early 1860s.

LEUTZE, Emanuel. *Art.* b. Wurttemberg, Bavaria 24 May 1816, d. Washington, DC 18 July 1868. He came to the U.S. as a child; he studied art with John Rubens Smith. Following European study after 1840 Leutze returned to the U.S. in 1859. His *Return of Columbus in Chains to Cadiz* served as the model for the $2 Columbian stamp of 1893.

LEVELLE, Herbert M. *ScrpEng.* He was employed at American BNCo from 17 May 1926 until 2 July 1931. Levelle was rehired on 2 Sept. 1936.

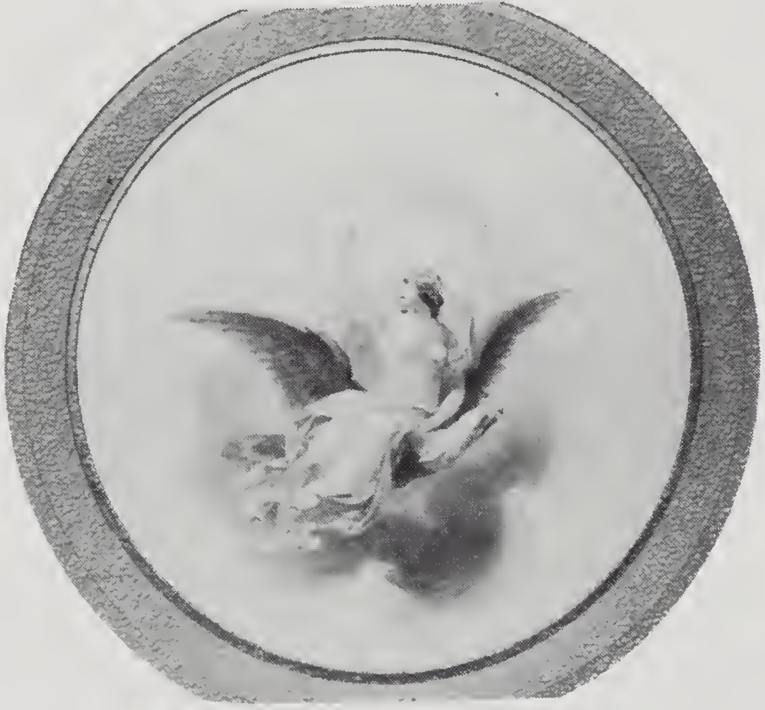
LEVELLE, Samuel. *ScrpEng.* He was employed at American BNCo on 16 May 1927 until 2 Feb. 1931. Levelle was rehired on 16 July 1932.

LEVY (LEAVY), _____. *Trans.* (see Amendt.)

LIBOWSKY, Paul. *Eng.* He engraved for Quayle & Son in the 1930s.

LIEBLER, Theodore August. *Art & Des.* b. Constanz (Baden), Germany 22 February 1830, d. Brooklyn, NY 10 Aug. 1890. He came to the U.S. in 1848. It is possible that he designed the eagle trade mark of American BNCo.

United States Federal & Obsolete Bank Notes



America Seizing the Lightning (eng. C. Burt), $10 NBN, H497-539; $10 NGBN, H567-577.

Arms of South Carolina (eng. W.W. Rice), Bank of Newbury $50.

Concordia (eng. C. Burt), $1 NBN, H29-35.

Girl with Sheaf, Petroleum Bank, Titusville, PA $10.

Indian Girl, Egg Harbor Bank, NJ $1.

Sailor, International Bank (Portland) Maine $3.

Foreign Bank Notes

Brazil
Justice (eng. C. Burt), 500 mil reis, PS711.
Ecuador
Justice (eng. O.G. Hanks), 100 pesos, PS245.
El Salvador
Girl with Sheaf, 1-100 colones, PS211-226.
Mexico
Indian Girl, 20 pesos, PS129.

Corporate Bonds & Stock Certificates

Arms of the City of New York (eng. F. Girsch): Guaranty Trust Co.; NY Guaranty & Indemnity Co. stock certificate.
Liberty & Massachusetts (eng. J. Bannister), New Haven & Northampton Co. cp. bd. (1879).
Nail Making (eng. O.G. Hanks). Fairhaven NB stock certificate (1882).
Philosophy (seated woman; eng. J.I. Pease), bonds: Boston & Albany RR; Commercial Cable Co.; Chicago, Springfield & St. Louis Rwy.
Washington at Delaware (eng. T. House). Washington Life Insurance Co. (1879).

LIGI, Eguesto. *Eng & GLO.* d. 27 Dec. 1987. After working as a machinist at the U.S. Navy Yard, this talented artist transferred to the Bureau of Engraving and Printing where he began his employment as a die-sinker on 1 May 1941. Mr. Ligi was named a sculptural engraver in 1975. He retired on 30 Aug. 1980.

LIMBACH, Anton. d. 1904. This stipple, portrait engraver was employed at Western BNCo.

LINCOLN Bank Note Co. In 1914 some employees of WestBNCo, Robert Terwedo, Howard Alfson and Carl Blomgren among them, formed this company in Chicago. One year later it was absorbed by the Columbian BNCo.

LINDSEY, J.H. He was employed in the Transfer Division of American BNCo in 1911.

LINDSLEY, Harry. *Sid.* b. ca. 1853, d. ca. 1900. He was employed at National BNCo, and American BNCo as late as 1886.

LINDSLEY, Joseph C. *Pant.* b. ca. 1850, d. ca. 1887. He resided in Newark, NJ and was employed at the National BNCo as late as 1887.

LINES, Augustus E. *Eng.* b. CT ca. 1823. He engraved the New Haven Postmaster's stamp in 1845 and was engraving in that city from 1850-1860.

LIPPENCOTT, Freelove. With the help of her husband Robert, she acquired three engraved counterfeit plates from England for the following notes: Connecticut 10 shillings, Massachusetts 3, 20 and 50 shillings, and Rhode Island £3. With four accomplices, including her brother George Lawton, she put these notes in circulation. Mrs. Lippencott and her associates were arrested, however, they were never convicted of their crimes.

LLOYD, Herbert E., Jr. *LtEng.* He engraved for the British American BNCo and Quayle & Son.

LOCHMULLER, Charles. *LtEng.* He engraved at American BNCo from 30 Nov. 1920 until 28 Aug. 1924; from 5 Oct. 1925 until 29 March 1929. Lochmuller was rehired on 10 July 1930 and remained until at least 1938.

(Engraved by John Hay.)

LOIZEAUX, Elie Timothée. *PEng & PtEng.* b. Vinton, IA 1873, d. New Rochelle, NY 6 Aug. 1956. At the age of six he moved to NY with his family. Following a year with a commercial engraving house in Pittsburgh, Loizeaux, at age 19, began his apprenticeship with ABNCo on 21 March 1893. At night he drew from life at the Art Students' League under G. de Forest Brush. During his 53 years (1893-1946) with ABNCo he engraved stamps and bank notes for at least 29 countries. After his retirement ABNCo commissioned him to engrave the label for the 1947 International Philatelic Exhibition and the Bahamas stamp (A16). Loizeaux is one of the great engravers and etchers of the 20th century. He was also a recognized and published horticulturist. The engraver's sister, Elizabeth, posed for a sketch her brother executed for bank note use. This sketch and Mr. Loizeaux's engraving tools were presented to the Smithsonian Institution. Twenty of Loizeaux's 53 years with ABNCo were spent at their offices near Trinity Church in lower Manhattan. A pleasing portion of the auditory atmosphere inspired Mr. Loizeaux to compose the following:

Those Evening Bells

Oh Trinity Bells! Sweet Trinity Bells!
How fresh within the mem'ry dwells
Of happy work, and good old times
When last we heard your soothing chimes!

Those joyous hours are passed away;
And many a heart that then was gay
Within this tomb now darkly dwells,
And hears no more old Trinity's bells.

And so 'tis now since we are gone —
Though tuneful peals you still ring on —
"Trinity Process" now compels;*
We punch the clock and hear the bells.

* The "Trinity Process" was derived from ABNCo's specialized process of printing in three colors.

Foreign Bank Notes

Bolivia
Family, 1 boliviano, PS161.
Peasants (eng. with C. Skinner), 10 bolivares, PS153.

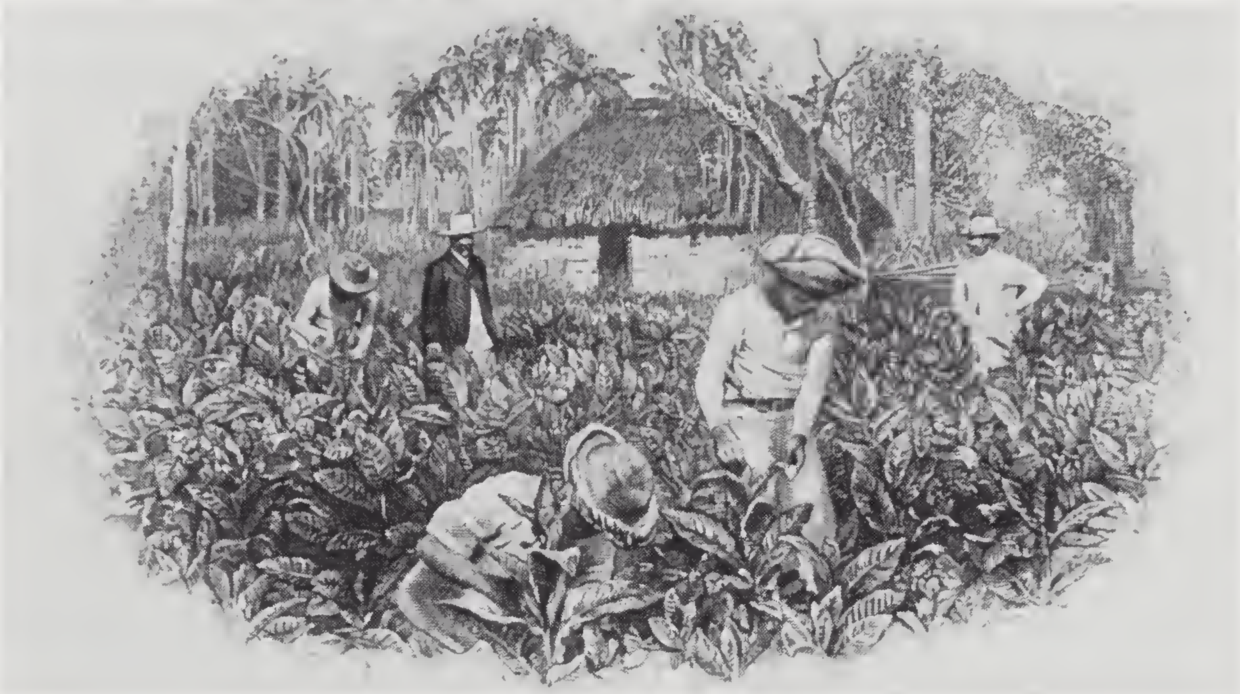
Belgian Congo
Female Head, 500 francs, P18.
Brazil
Allegory (eng. with C. Skinner), Rep. of Brazil (1902).
Alvarez, 100 cruzeiros, P141.
Cabral, P.A., 1,000 cruz., P141 & P149.
de Caxias, D., 2 cruz., P133.
Joao VI, D., 50 cruz., P137 & 500 cruz., P172.
Canada
Bogert, C.A., $5-$100, PS1028-1032.
Females, $20, PS1445.
Females (eng. with C. Skinner), $20, PS1445.
Leman, Beaudry, $5, PS716, $10, PS717, $10-$50 (right side), & $5-$100, PS811-815.
Northwest Rebellion Monument (eng. with C. Skinner), $20, PS1089.
China
Confucius, $1-$100, P1-8.

Colombia
Bolivar, S., 500 pesos, P367.
Santander (eng. with R. Savage), 10 pesos, P324.
Costa Rica
Girl with Fruit (eng. with C. Skinner), 5 colones, P160.
Cuba
Maceo, A., 20 pesos, P80.
Palma, T.E., 1,000 pesos, P84.
Dominican Republic
Female with Lute, 1 peso ($1), PS151.
Ecuador
de Almagro, Don D., $10 (left side), PS104.
Female with Globe, 50 sucres, P87 & P94.
Male Portrait (eng. with R. Savage), 1 sucre, PS221-222.
El Salvador
Columbus, C., 1-25 colones (backs), PS211-215.
Tropical Agriculture No. 1, 1 colon, P69 & 5 colones, P74.
Haiti
Tobacco Picking, 100 gourdes, P166 & P184.

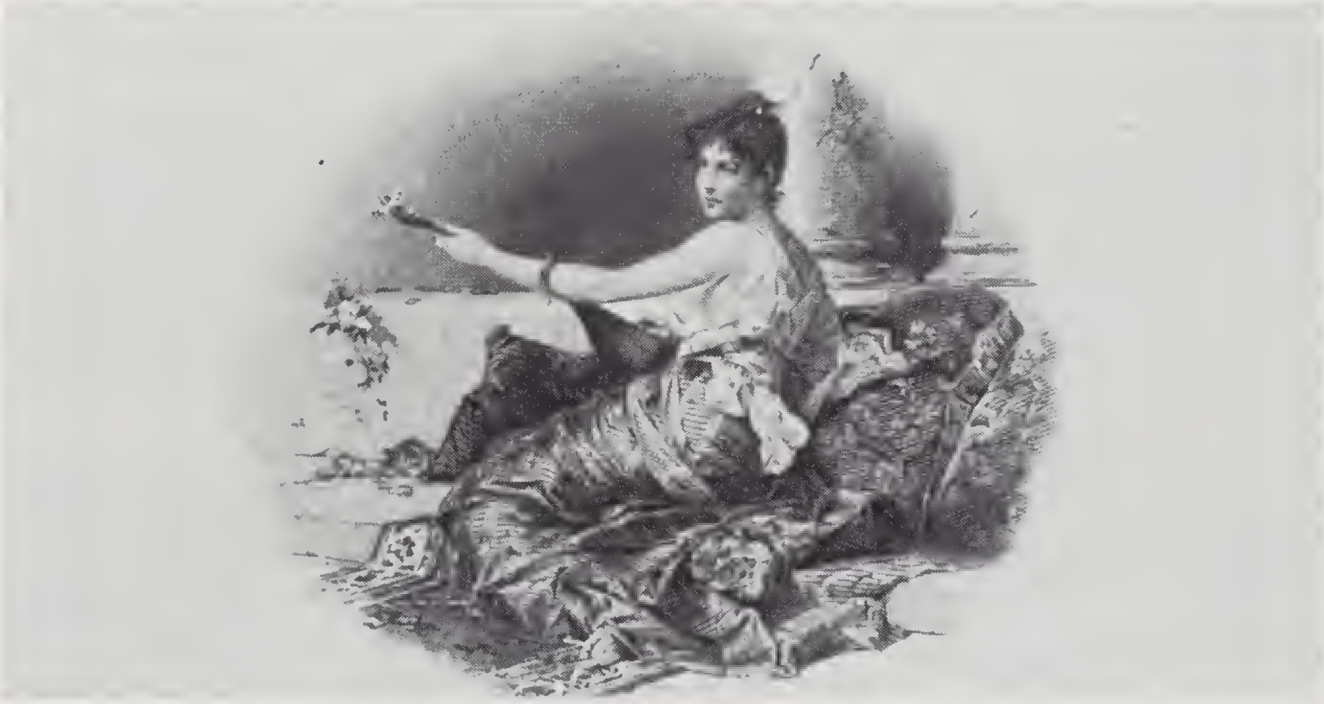
Mexico
Arana, J.A.U., (eng. with C. Skinner), 20 pesos, PS392 & 500 pesos, PS395.
Cuauhtemoc, 1,000 pesos, P721 & P721A.
Females (eng. with C. Skinner), 20 pesos, PS373.
Girl with Fruit (eng. with C. Skinner), 5 pesos, PS298.
Man Seated Holding Wheat, 10 pesos, P702.

Poland
Peasant Woman, 50 zlotych, P88.
Spain
Zorilla, José (finished by E. Gunn), 1,000 pesos, P84A.
Venezuela
Man Seated Holding Wheat, 10 bolivares, PS226.

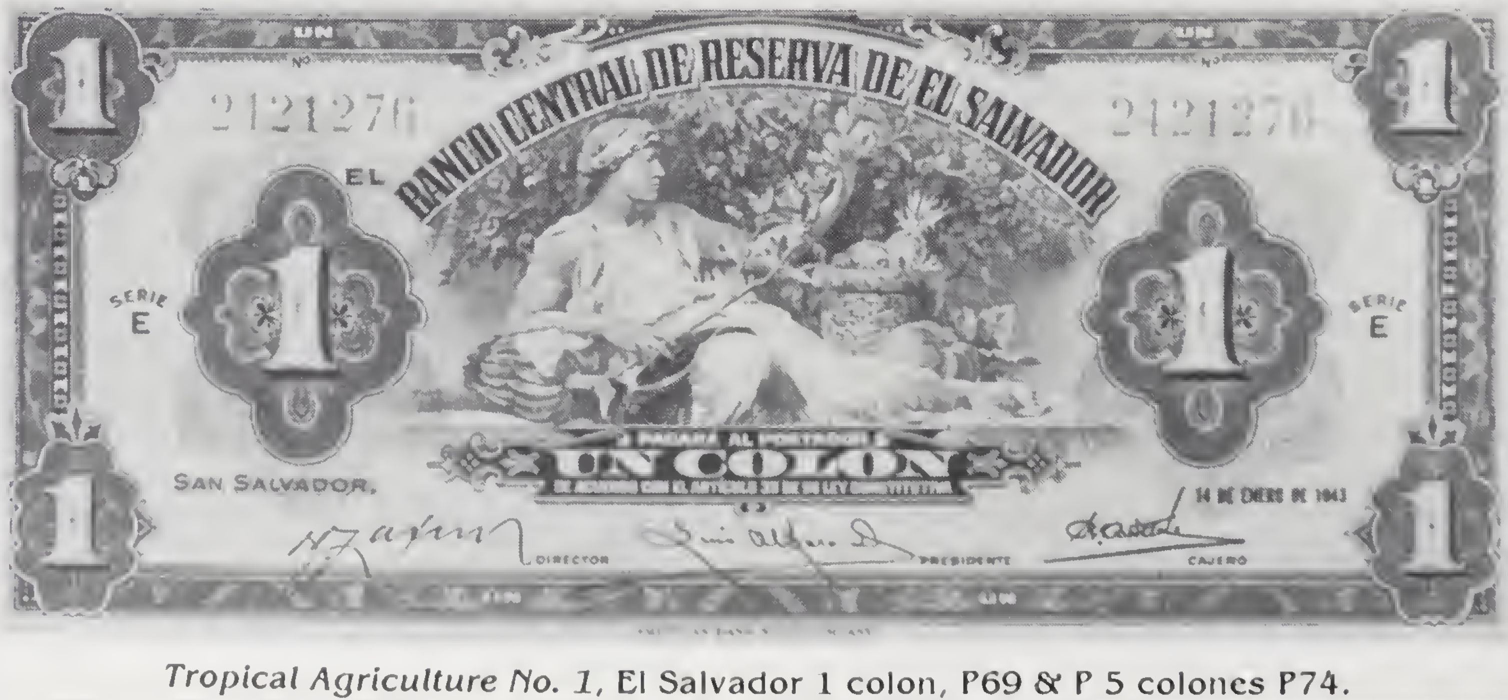
Engravings by Elie T. Loizeaux



Tobacco Picking, Haiti 100 gourdes, P166 & P184.



Female with Lute, Dominican Republic 1 peso ($1), PS151.



Tropical Agriculture No. 1, El Salvador 1 colon, P69 & P 5 colones P74.

Corporate Bonds

Arms of Bergen, Norway (figures by E. Loizeaux), cp. bd. (1921).
Arms of the City of Christiana, Norway, cp. bd. (1924).
Female profile, Long Island Equipment Trust, Series B. coupon (1917).
Navigation (two women; eng. with C. Skinner), Hamburg-American Line 6½% 1st mort. cp. bd. (1925); Republica dos Estados dos Brazil.
Plaza Hotel (eng. with C. Skinner), Plaza Operating Co. (1906).
Seal (corporate), Chamber of Commerce of New York (1901).
Telephone Operator, Copenhagen Telephone Co. cp. bd. (1925).

Stock Certificates

Electricity, General Electric.
Female with Lyre, Kieth-Albee-Orpheum Corp.
Labor (man with hammer): Aeroquip Corp. (1955); Valley Mould & Iron Co. (1965).
Male Allegory, General Fire Extinguisher Co. (1925).
Seal (company), Charles Toppan Petroleum Co. (1897).
Forging Steel (art by A. Foringer): Vulcan Detinning Co. (1947); Jones & Laughlin Steel Corp. (1962).
Tobacco Picking, George W. Helme Co.

Stamps

Bahamas
A16.
Belgian Congo
A32 (Nos. 94-97, 100, 107-108).
Bolivia
A47.
Brazil
A56 & A68.
Canada
A37, A42, A50, A76-78.
Chile
A15, A26 (Nos. 92, 94), A33, A39, A54-55.
Colombia
A99, A179 & A219.
Costa Rica
A55, A71, A74-75 & AP8.
Ecuador
A62, A75, A80, A86 (Nos. 223, 237), A140, A159, A163, A172, A175, AP10 & P26.
Guatemala
A52.
Haiti
A20 & A63.
Nicaragua
A32 & AP14.
Panama
AP34, A40 & A51.
Paraguay
P4.

Peru
A32, A52 & A66 (Nos. 227 & 228), A80, A83 & AP24.
Salvador
A137 (No. 580).

Surinam
A29 (No. 187).
Venezuela
A81 & AP21.

LONGACRE, James Barton. *Art & PtEng.* b. Delaware County, PA 11 August 1794, d. Philadelphia 1 Jan. 1869. The original name of his Swedish ancestors was Longker. In 1819 he left George Murray, his teacher, to engrave on his own. Bradford's Encyclopedia includes his work. He was recognized as one of the best engravers of the period. In 1834, with John Draper, he joined Charles Toppan & Co.; Longacre left Draper, Toppan, Longacre & Co., the succeeding firm in 1839. For the *National Portrait Gallery* (1834-1839), he found the best engravers in the United States, then in order to complete this project, he induced European engravers to come here. His true legacy is found in U.S. coinage. From 1844 until his death he was chief engraver at the U.S. Mint. He was employed by the government of Chile to redesign their coins. Longacre's portrait of *Benjamin Franklin*, engraved by Charles Burt, was used on $10, H603 & 604; $500, HX183C. The engraved portrait of *Andrew Jackson* on the Canal Bank of New Orleans $50 note is based on his painting.

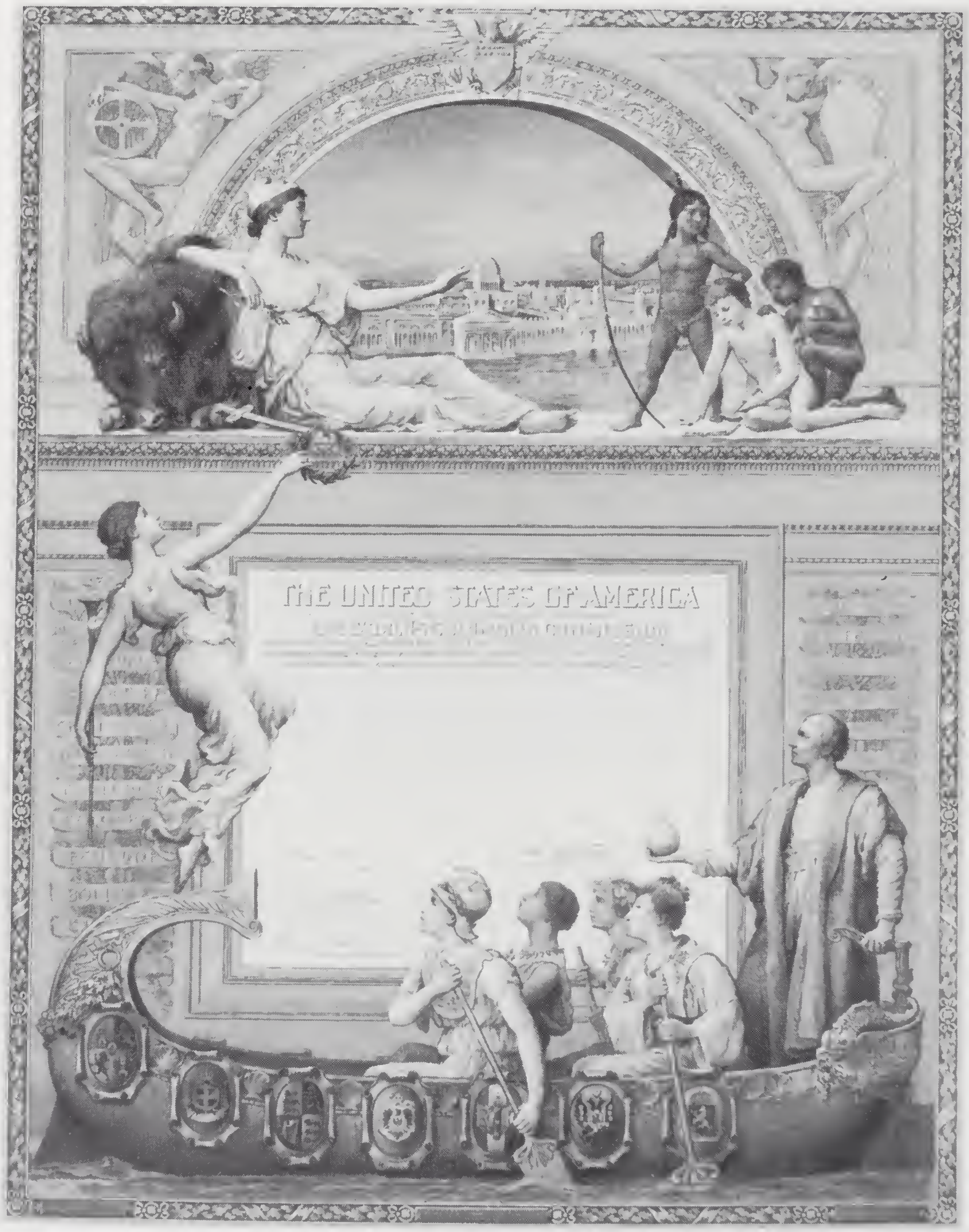
LONGWORTH, W.D. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1813.

LORE, Irwin W. *Eng.* He was employed in the Philadelphia office of American BNCo in the early 1860s.

LORENS, David. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s and as late as 1951.

LOUDON, Samuel. *Pr.* b. Ireland ca. 1727, d. Middletown Point, NJ 24 Feb. 1813. He was in NYC by 1775 when he joined the printer Frederick Shober who soon retired; Loudon took over the business. Just before the British occupied NYC he moved his press to Fishkill. He printed NY notes dated 13 Aug. 1776 & 18 April 1786.

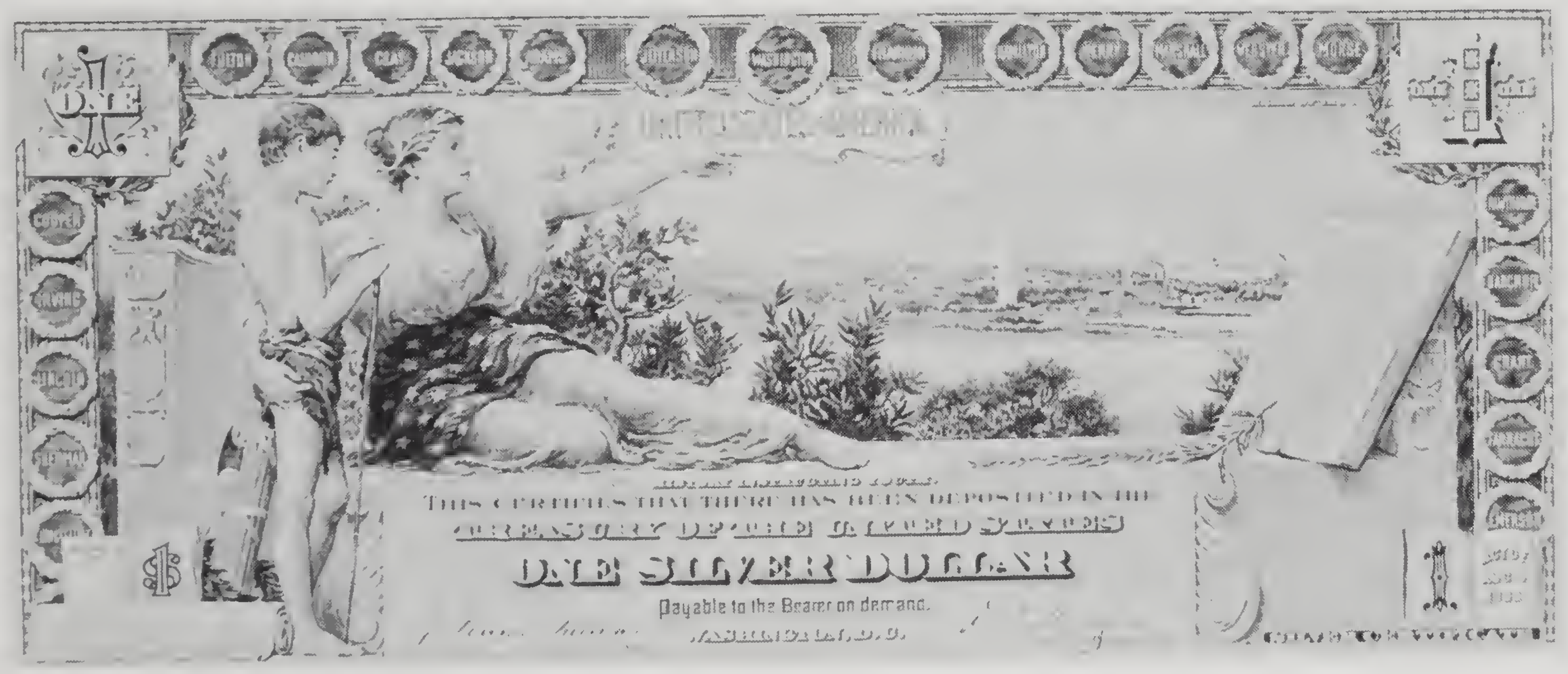
LOUIS, _____. *Trans.* (see Amendt.)


THE UNITED STATES OF AMERICA

The World's Columbian Exposition Diploma, which measured 18" x 23½", was presented to international exhibitors at the exposition held in 1893 in Chicago, IL. The art work was created by Will Low; the engraving was executed by Charles Schlecht. There were 25,555 diplomas printed for the participants from 86 countries, colonies and principalities.

LOUTHDOUR, P.J. *Eng.* A bank note vignette, untitled, dated 30 Nov. 1795 has been attributed to this engraver (Altmann, n.d., 162).

LOW, Will H. *Art & Des.* b. Albany, NY 31 May 1853, d. 27 Nov. 1932. At 17 he submitted a drawing to the *Independent*, a newspaper, for which he received $50. Without formal training he illustrated for *Harper's* and *Appeltons'*. At about the age of 20 he went to Paris to acquire the training needed. He met and married Marie Julienne; they became friends of Robert Louis Stevenson, who was living in Paris. Back in the U.S. Low became associated with the American artist John LaFarge in 1879 with whom Low learned to work in stained-glass. Low received a medal at the Paris Exposition in 1889 for his illustration of Keats' "Lamia." He designed the diplomas for the Chicago Exposition (1892 & 1893) and the Louisiana Purchase Exposition (1904). Low designed the 1896, $1 silver certificate that featured *History Instructing Youth*. He was a member of numerous art associations including: the Society of American Artists, the NAD, the National Society of Mural Painters and the National Institute of Arts and Letters. Low was member of the prestigious Salmagundi Club. (See *PAPER MONEY* Nov./Dec. 1984 for a list of art works and murals.)


ONE
THIS CERTIFIES THAT THERE HAS BEEN DEPOSITED IN THE
TREASURY OF THE UNITED STATES
ONE SILVER DOLLAR
Payable to the Bearer on demand.

History Instructing Youth

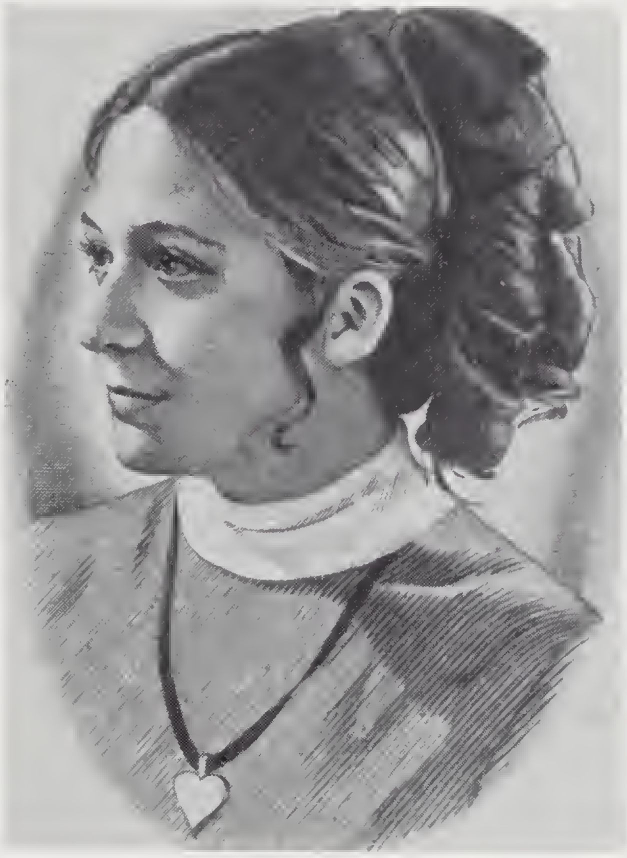
LOWE, James Russell. *PEng.* b. Washington, DC 24 May 1907. He became a messenger boy at the U.S. Government Printing Office on 25 July 1923 at 20¢ per hour. He began his apprenticeship as an engraver at the Bureau of Engraving and Printing on 4 May 1925; he was named a picture engraver on 5 May 1929. His engraving of *Louis McLane* appears on a stock transfer stamp. Lowe submitted his resignation on 12 May 1942.

LOWELL, John A. *Eng.* b. Portland, ME 1837. He was the partner in Eastman & Lowell. In 1858 the John A. Lowell Co. was established in Boston. In 1868 Lowell and lithographer A. Brett acted as agents for the National BNCo. In 1887 Eastman & Lowell, perhaps a division of the parent company, was located at 147 Franklin St. in Boston. About this time the Lowell BNCo was formed; it acted as an agent for the New England BNCo. The Lowell BNCo performed security work until the 1920s when it concentrated on stationery work.

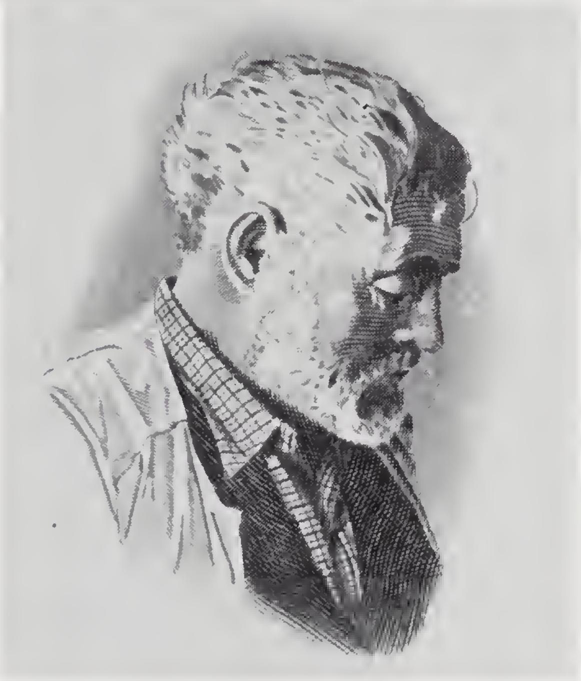
During World War II, copper engravings dating back to the Civil War were sold as scrap. Some of these plates surfaced in the late 1980s. After World War II the firm changed hands three times. The company currently operates under the name of The Nimrod Press

Engravings by Armandina Lozano

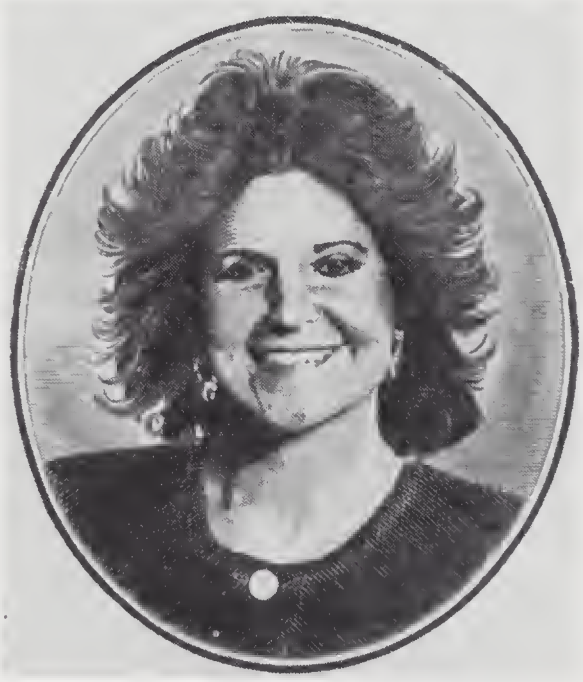
Armandina Lozano



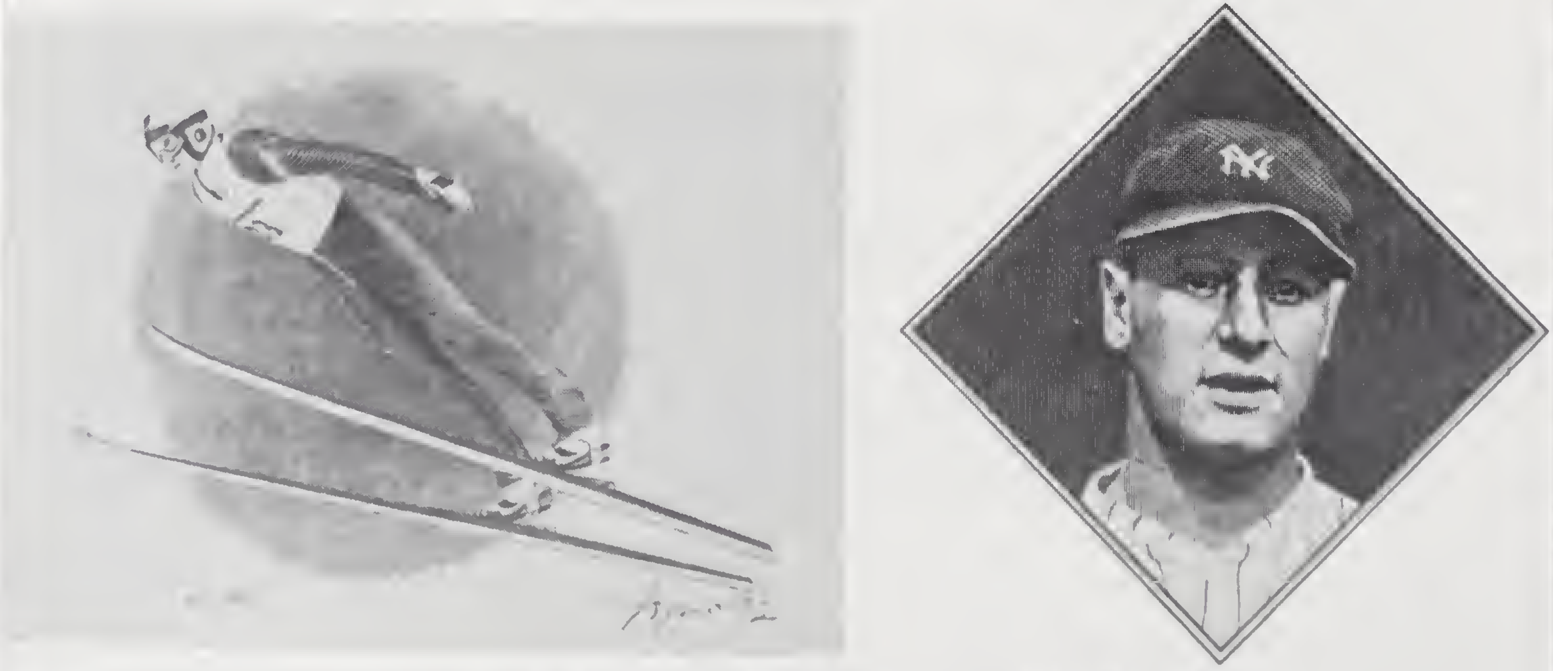
An engraving by Ms Lozano of her sister Orelia, also an artist.



Ernest Hemingway for U.S. Postal Service.



Jenny Craig for stock certificate.



Olympic skier and Lou Gehrig for U.S. Postal Service.

Printers and Engravers (*EPJ*, 47, 4, p. 186). The John A. Lowell logo appears on securities for the Old Dominion Co., Boston, and the Metropolitan Steamship Co., ME. Engravers for this Boston company included Charles Burt, D.F. Caughlan and J.A. Rueff.

LOWNES, Caleb. *D-S & Eng.* He was in Philadelphia after 1770 until the 1790s. In 1779 he was paid £75 for cutting a seal for the PA Board of Admiralty; it was designed by Francis Hopkinson. Lownes is credited with engraving the woodcut for the seal on the headings of early PA legal paper.

LOWRY, Wilson. b. 1762, d. 1824. He was the first American to use a diamond point for ruling, and, to discover a suitable method to etch on steel.

LOZANO, Armandina. *Art, PEng & PtEng.* b. Mexico City 1952. She attended art schools in Mexico and the U.S. including the Escuela Nacional de Artes Visuales at the Universidad Nacional Autonoma de Mexico; engraving studies at Thomas de la Rue in England and the Engraving School at La Banca de Italia in Rome. Lozano has exhibited her work in the U.S., Mexico and France; she has collaborated in creating seven murals in Mexico. This artist and engraver is represented in seven publications. From 1978-1982 Lozano engraved at the Banco de Mexico. In 1983 she joined Jeffries BNCo in Los Angeles, CA — Jeffries was acquired by USBNCorp in 1989 — as the only working, female, portrait engraver in the U.S. Ms Lozano's first U.S. postage stamp was the $2.90 Priority Mail stamp issued in 1991. In addition to numerous subjects for U.S. Postal Panels, Ms Lozano engraved the portrait of *Jenny Craig* for the company stock certificate.

LUDLUM, Samuel S. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s.

LUEDKE, Jules. This printer was employed at American BNCo as early as 1936.

LUTZ, W.F. *Eng.* He began his career at the Bureau of Engraving and Printing on 20 September 1877. Mr. Lutz retired in Jan. 1904.

LYLE, James. *Trans.* (see Amendt.)

M

MABIE, Carroll. *PEng.* (see MAYBIE.)

MACDONOUGH, James. *Art & Des.* b. ca. 1820, d. NYC 6 Jan. 1903. He began engraving ca. 1846 with Danforth, Spencer & Hufty and remained with the succeeding firms, the last of which was Danforth, Perkins & Co. MacDonough was a founder of the National BNCo and headed the model-design and engraving departments; he became a vice-president in 1876. After consolidation with American BNCo in 1878 he served as vice-president; from 1887 until his death he was president. Patents number 30,488 dated 23 Oct. 1860 (bank note improvement) and number 52,869 dated 27 Feb. 1866 (ink) are registered in his name. MacDonough's paintings were exhibited at the National Academy of Design from 1849 to 1851. He might have done illustrations for the *Illustrated American News*.

MACDOUGAL, W.H. (see DOUGAL.)

James MacDonough

Alvin N. Meeker

Charles Montgomery

Edward E. Myers

Martha Morris

Thomas F. Morris

MACK, Charles. *Des.* He was employed at American Bank Note Co from 14 May 1892 until 1947. From 31 March 1893 until 2 Nov. 1904 Mack worked at the Philadelphia office of ABNCo. He designed a considerable number of postage stamps. *The EPJ* (*46*: 4, p. 151) lists Mack's designs including numerous essais.

Stamps

Columbia: A157, A177, A179, A257 & AP39.
Ecuador: A144, A167, AP20 & AP23.
Haiti: A52, A53, A55 & P1.
Honduras: O2, AP4-5, AP13, AP14 & AP16.
Nicaragua: A33, AP9 & AP19.
Paraguay: A69, A90 & AP26.

MACKALLORS, Eddie. d. 1902. He was a transferer with the Western BNCo.

MACKAVOY, Edward T. *LtEng.* b. 1911, d. 1986. He was with ABNCo from 1926 to 1976.

MACKLIN, T. *Eng.* An untitled bank note vignette, dated 18 Jan. 1873, has been attributed to this engraver by Altmann (n.d. 168).

MACLAVERTY, Joseph. *LtEng.* He was employed at the Security BNCo ca. 1930.

MACKMILLAN, Andrew. *LtEng.* He began his employment at American BNCo on 27 December 1928. MacMillan could have been at ABNCo as late as 1950.

MACPHERSON, Harry. *LtEng.* He began his apprenticeship at American BNCo on 14 January 1921; it is uncertain if he remained with ABNCo.

MADDEN, Christopher, D. *Art & PEng.* b. Dayton, OH 14 March 1963. He received his BFA from Ohio State University. Mr. Madden, who also works as a free-lance artist and portrait painter, joined the Bureau of Engraving and Printing in June 1988.

MAIGNELLE, James. (This is probably an incorrect spelling, see Meignelle.)

MAIN, William. *Eng.* b. NYC 1796, d. NYC 1876. He was trained in Italy under Morghen. Main returned to NYC in 1820 and was working there from 1821 to 1833. He is a founder of the National Academy of Design.

MAINFORT, Donald. *Eng.* b. Midland, MI 25 Nov. 1954. He earned undergraduate and graduate degrees in art from Michigan State University. Mainfort worked as an illustrator and graphic artist for his alma mater until 1987 when he joined United States BNCo as an apprentice engraver. During his time with this company Mainfort worked privately under Charles Brooks, retired BEP engraver. Mainfort engraved the *Senior Citizen Couple* for the Horizon Health Care certificate. In 1989 he moved to American BNCo; the following year, when the company was sold, he accepted a position at Northern BNCo.

MAINWARING, Arthur. *LtEng.* He was employed at E.A. Wright BNCo.

MAJOR, Alfred Sarony. *Des.* b. NYC ca. 1853, d. Freeport, LI, NY 23 July 1929. He is the son of Henry B. Major, a lithographer, who is the brother of James P. Major. The career of A.S. Major began with Major & Knapp. In 1880 he went to ABNCo as a modeler and designer; in 1887 he became Foreman of the Modeling Dept. and was appointed Superintendent in 1894 following the issue of the 1893 Columbian Exposition stamps. Major was a vice-president at ABNCo from 1917 to 1929.

MAJOR, Henry B. *Lith.* He joined Napoleon Sarony in the firm of Sarony & Major, engravers and lithographers in NYC. He could have been related to James P. Major.

MAJOR, James Parsons. *Des & Eng.* b. Somersetshire, England 13 May 1818, d. Sommerville, NJ 17 Oct. 1900. He came to the U.S. in 1830 and after studies with Augustus Halbert joined Rawdon, Wright & Hatch in 1836 and remained with RWH&E, the successor. Following the formation of ABNCo he headed the modeling and design departments. Major's design supervision for NBN included: *The Battle of Lexington*, $20, H728-772; $50, *Washington Crossing the Delaware*, $50, H953-986; *The Battle of Lake Erie*, $100, H1151-1183.

Stamps

Chile
Columbus, Christopher, 1¢, 2¢, 5¢ & 10¢, A2.

Costa Rica,
Coat of Arms, ½, 2 & 4 reales, and 1 peso, A1.

MAJOR, Walter. *Des.* b. ca. 1875. He was the brother of A.S. Major and in the 1920s headed the Design Dept. at ABNCo. The principal type of printed design produced by the WLG presses in the 1920s (named after ABNCo President, Warren L. Green) was called "Major Tint." This was in honor of A.S. and W. Major.

MANDEL, Edward. *Eng.* He worked in Chicago from the late 1850s to the early 1870s. Mandel's primary work was consisted of checks, scrip and stock certificates for Chicago merchants and firms.

MANDEL, Henry G. b. 1857, d. 30 May 1902. This photoengraver and photographer was the official expert on counterfeiting and color at American BNCo. Mandel assembled a formidable collection of philatelic *essais* and proofs. He was a close friend of engraver Marcus W. Baldwin; they exchanged examples of engraving. In 1900 he arranged the U.S. Post Office Dept. exhibit of stamps at the Paris Exposition; the same exhibit was seen at the Pan-American Exposition in Buffalo.

MANDEVILLE & Co. was the successor to Mandeville & Westcott. This firm prepared notes for the Corporation of Kingston NY dated 8 Sept. 1790.

MANHATTAN ENGRAVING CO. Located in New York City at 71 Broadway in 1867 and 118 Liberty St. from 1868-1870, this company probably succeeded the United States Bank Note Co. Engraver George W. Thurber served as the first treasurer. In 1881 this company produced 2 and 3¢ postal cards for the Dominican Republic and postage stamps for Haiti. The company logo appears on the NY & Ft. Lee Railroad Co. coupon bond.

MANOUVRIER, Jules. This New Orleans, LA lithographer was contracted to print $10 notes for the Confederate States of America. Part of the shipment was stolen and placed in circulation with forged signatures; the company lost their contract. "...some of the skilled workmen and equipment [were] transferred to Hoyer & Ludwig at Richmond (Todd 95). In a partnership with P. Snell, Manouvrier printed notes for North Carolina banks and other southern banks.

MANY, Seymour B. *LtEng.* d. Washington, DC 16 Feb. 1900. He came to the BEP in 1894.

MAPLE, William H. *LtEng.* He began his employment at American BNCo on 22 Jan. 1906. The 50¢, telegraph stamp of Panama is an example of his work.

MARCAVAGE, Alphonsus P. He was employed at American BNCo from 1927-1959 first as a lithographer, then designer and finally manager of ABNCo.

MARCH, Dixie Oyster. *LtEng & ScrpEng.* b. Alliance, OH 30 Nov. 1952. Between grades 4 and 12 Ms March received individual training in portrait drawing and painting from Imelda Gentile and Elmer Day. Mr. Leland Whitacre, her high school art instructor, advised and helped Ms March to enter the Art Institute of Pittsburgh. In April 1973, one month after she received her B.A, she was employed as a paste-up artist at the United States Bank Note Corp. in Pittsburgh. Between 1975 and 1979 Ms March studied life drawing at the Arts & Crafts Center in Oakland, PA.

In 1984 Ms March began her engraving apprenticeship at the Chicago office of USBNCorp; two years later she was transferred to the Philadelphia facilities. There she worked under Allan Carswell and Alfred Merkh. After a maternity leave in 1989 Ms March joined the Bureau of Engraving and Printing in Sept. 1989; her apprenticeship was completed in Dec. 1992.

The following list of stock certificates, unless indicated, represents engraved script work for USBNCorp.:

Adobe Resources Corp.
American Government Income Fund, Inc.
American Savings Bank, FSB.
Atalanta Capital Corp.
Audio/Video Affiliates, Inc.
Avnet, Inc.
Baltimore Bancorp.
Bank of America National Trust.
Birmingham Steel Corp.
Black & Decker Corp., The.
Borden Chemicals (tint & lathe work also).
Brazil Fund, Inc., The.
BRE, Properties, Inc.
Burlington Industries, Inc.
Burlington Northern RR Co.
Businessland, Inc.
Carteret Bancorp, Inc.
Catalyst Energy Corp.
Centennial Group, Inc., The. (title)
Consolidated Stores Corp. (title also).
Continental Corp., The.
CyCare Systems, Inc. (Roman title also).
Del-Val Financial Corp.
Dime Savings Bank of New York, FSB, The.
Enviornmental Treatment and Technicians.
Export-Import Bank of Japan, The.
Gap, The.
Global Growth & Income Fund, Inc.
Indiana Energy, Inc.
InterNorth (tint also).
IPB, Inc.
Leslie Fay Companies, Inc., The.
Liberty All-Star Equity Fund.
Long Island Lighting Co.
Longview Fibre Co.
Malaysia Fund, Inc.
Mark 1 V Industries, Inc.
Matthews & Wright Co.
Morgan Stanley Group. (tint).
National Penn Bancshares.
New High Income Fund, Inc. (title).
Nippon Telegraph and Telephone.
Northeast Savings, F.A.
Northwest Financial, Inc.
Owens & Minor, Inc.
Paco Pharmaceutical Services, Inc.
Pansophie Systems.
Parker Drilling Co.
Penn Central Corp., The.
Pepsico, Inc.
Pinnacle West Capital Corp.
R.J. Financial Corp.
RJR Nabisco, Inc.
Rorer Group, Inc.
Royce Value Trust, Inc.
Rydu Systems, Inc. (tint).
Scana Corp.
Schnitzer Steel Indiana, Inc.
SEQUA (title eng. with A. Carswell).
Shearson Lehman Brothers Holdings, Inc.
Texaco, Inc.
Time, Inc. (tint).
United Kingdom Fund, Inc., The.
United Park City Mines Co.
Wellman, Inc.
Wendy's International, Inc. (tint also).
Zayre Corp. (tint).
Zenith Income Fund (tint).

MARIS, T.R. *ScrpEng & Des.* b. 1847, d. ca. 1900. He was at the Philadelphia office of American BNCo in 1879.

MARKE, William. *PtEng.* He was employed at the Bureau of Engraving and Printing in the 1950s. Although listed with this spelling, the following entry is probably one and the same.

MARKS, William O. *PEng & PtEng.* b. Silver Spring, MD 26 Dec. 1899. He began his employment at the BEP on 16 1917. As an apprentice he skillfully copied the work of earlier engravers. His engravings of *Walter Forward, Walter Q. Gresham, Oliver Wolcott* appear on stock transfer stamps. Mr. Marks retired from the BEP on 30 Nov. 1955.

MARSH, William. *Eng.* From 1833-1843 he was engraving vignettes and advertising cards in New York City.

MARSHALL, Charles. *ScrpEng.* He was employed at American BNCo from 1892-1947.

MARSHALL, Charles (Jr.). *ScrpEng.* He was employed at American BNCo in the 1950s.

MARSHALL, Edgar. Trans. After engraving at American BNCo he was employed at the Bureau of Engraving Printing, as late as 1951.

MARSHALL, William Edgar. *Art & PtEng.* b. NYC 30 June 1837, d. NYC 29 Aug. 1906. His engraving career began with Danforth, Wright & Co. With the succeeding company, Danforth, Perkins & Co., he moved into American BNCo when it was formed in 1858. The following year he joined the newly-organized National BNCo. In 1864 Marshall went to Paris to study painting; during his two years there, he exhibited at the Salon. Although trained as a bank note engraver, he is best known for his large engraved portrait of Longfellow in the *National Portrait Gallery*. In 1883 he was listed in the NYC Directory as a bank note engraver.

Bank Notes

FC: 5¢, H1502-1505; 10¢, H1514-1517.
Girl's Head, Bank of Pontiac, MI $1.
Girl's Head (facing left), Taunton Bank, MA $1.
Trade (female seated with quill), Mexico 500 pesos, PS247.
Young Girl, Egg Harbor Bank, NJ $1.
Young Girl (This is different than the preceding listing.) Citizens Bank, Pittsburgh, PA $2; Pittston Bank, PA $1 & $2.

MARSH, A.J. *Eng.* He was employed at the Bureau of Engraving and Printing ca. 1890.

MARTLING, B. This engraving-prover was employed at American BNCo about 1919.

MASON, Alva. *Eng.* He headed W.&A. Mason in Philadelphia from 1817 to 1859.

MASON, David. *Eng.* He was in Philadelphia from 1805 to 1830; with Murray, Draper, Fairman & Co. in 1816.

MASON, G. *Trans.* He was employed at the Bureau of Engraving Printing ca. 1900.

MASON, GEORGE A. *Trans.* b. NYC 1854. He was employed as a watchman at the Bureau of Engraving and Printing on 21 June 1875. On 25 April 1876 he became an apprentice plate cleaner; on 7 July he rose to transferer and became foreman on 14 April 1900. His last recorded date at the BEP was 15 July 1909.

MASON, G.C. He was employed at American BNCo in an unknown capacity.

MASON, George R. *Sid.* b. Washington, DC 1897. He joined the Bureau of Engraving and Printing as a plate cleaner on 10 Nov. 1915. He began his apprenticeship as a transferer, or siderographer, on 3 Jan. 1918; he was named a transferer on 11 January 1919. Mason resigned on 21 January 1920, but, he returned on 4 Oct. 1923. His final resignation took place on 1 Sept. 1924.

MASON, Gladys. b. 20 May 1898. She was appointed as an operative at the Bureau of Engraving and Printing on 18 Oct. 1917; she left on 31 August 1921. Mason returned as a printer's assistant on 3 Sept. 1925.

MASSEY, Joseph. *Eng & Pr.* d. 1736. He engraved South Carolina Colonial currency issued under the Act of 8 May 1703 and printed notes dated 1723.

MASURE, John C. *Eng.* b. Ottawa, Ontario 14 June 1923. His apprenticeship took place at the British American BNCo. Before joining the Bureau of Engraving and Printing Masure engraved for the BrAmBNCo, the Royal Canadian Mint and Jeffries BNCo. Mr. Masure is one of two engravers at the branch facility of the BEP in Ft. Worth, TX.

MATTHEWS, George. He was improperly given credit for creating the anti-photographic green ink. As the representative for American BNCo in Montreal, he merely acquired the patent from Dr. Thomas Sterry Hunt.

MATTHEWS, W. This engraver was employed at the BEP in 1947.

MAURER, Josephine. She was employed in the Design Department of American BNCo in 1911.

MAVERICK, Andrew. b. 26 May 1782, d. 1826. This copperplate printer is the son of Peter R. Maverick. It is doubtful if he engraved bank notes, nevertheless, he is listed as an engraver with Rawdon, Wright & Hatch in 1813 where he is credited with a portrait of George Washington. At the time of his death he had a shop at 21 Liberty St., NYC.

MAVERICK, Peter. *PtEng.* b. NY 22 Oct. 1780, d. NYC 7 June 1831. Four years after the death of his father, Peter R. Maverick, his first teacher, he was working in Newark, NJ. In 1818 a partnership was formed with his teacher A.B. Durand; Maverick left in 1820. John W. Casilear was a student of this engraver who, according to Thieme-Becker, studied with W. Harrison, Sr. One, 2, 3 & 5 peso notes dated 182_ for Colombia and notes for 35 banks in the states of GA, MI, MO, NJ, NY and RI bear his imprint. In 1830 he is listed as a partner in Toppan, Maverick & Co. Maverick was a founder of the National Academy of Design. His daughters, Maria Ann, who worked in her father's shop, and Emily were stipple engravers; his son, Peter (1809-1845), was an engraver and lithographer; Catherine and Octavia, his other children, also learned engraving from their father. Peter Maverick's wife was a xylographer.

MAVERICK, Peter, Rushton. *PEng.* b. NYC 11 Apr. 1755, d. Newark, NJ 12 Dec. 1811. He is the son of Andrew Maverick (b. 1729). Charles O. Bruff, John A. Beau and Henry Pursell were possible employers of the engraver from 1768 to 1775. By 1775 he was working as a silversmith. He left NYC during the British occupation and returned ca. 1784. On 12 July 1784 he advertised for his place of business at 3 Crown St., NYC, that "ladies may have their tea-table ware engraved in the most elegant manner." His children, Ann (b. 1778), Peter (b. 1780), Andrew (b. 1782) and Samuel (b. 1789) were also engravers; Ann, as a widow, supported her children by engraving. Maverick engraved NY Colonial notes dated 8 Feb. 1788. Until 1793, when it was necessary to distinguish his work from that of his son, Peter R. Maverick signed his work "Maverick;" seldom did he use the "R." in his name. On occasion "Maverick Senr." was used.

MAVERICK, Samuel. *Eng & CPP.* b. NYC 5 June 1789, d. NYC 4 Dec. 1845. On 5 June 1804 he was apprenticed to James Woodham, his brother-in-law, to "learn the art, trade, and mystery of a mariner." By 1890 he had his own copperplate establishment in NYC. Asher B. Durand and Peter Maverick (b. 1780) were contracted by Samuel Maverick to do engraving work, which he would sign. The latter, his half brother, "refused to do further work until Samuel should stop advertising himself as an engraver" (Stephens 87). From 1813 to 1832 he worked as a copperplate printer. After 1832 he was working as a lithographer and engraver. This engraver engraved the $10 Bank of PA Township note.

MAVERICK, Samuel R. *Eng & CPP.* b. 19 Feb. 1812, d. New Orleans 24 Aug. 1839. He was working in NYC in 1833. Four years later Maverick moved to New Orleans where he was employed by J. Lowe and D.G. Johnson. He was the second son of Samuel Maverick.

MAY, George W. *Eng.* He was in NYC from 1837 to 1860; with Bale & Smith 1843 to 1848; Bale & May 1848 to 1851; May & Glaubrecht 1851 to 1854.

MAYBIE, Carroll. *ScrpEng.* d. 5 Apr. 1944. He began his employment at American BNCo on 11 April 1909. The scroll work on the Costa Rica 5 colones, P209 and the *Arms of the Chinese American Bank of Commerce,* China PS230 was engraved by Mr. Maybie.

MAYNARD, George. *Art & Des.* b. Washington, DC 5 May 1843, d. Washington, DC 5 April 1923. He studied at the Royal Academy of Fine Arts in Antwerp and had a studio in Paris in 1878. Maynard settled in NYC in 1885 and became a member of the NAD and the prestigious Salmagundi Club (1886). On 5 Sept. 1894 Maynard submitted a design, *Civilization Enthroned and Crowned supported by Discovery and Adventure,* for the U.S., 1896 silver certificate. This design is unknown in any collection.

MAXCY, John E. *Eng & Trans.* He was employed at the New York BNCo and the Hamilton BNCo before 1931.

McCALLUM Daniel W. *Sid.* He was employed at the Bureau of Engraving and Printing in the 1930s and as late as 1951.

McCASKIE, John. *Pant.* d. 17 May 1946. He was employed at American BNCo from 4 Sept. 1926 until 21 May 31 and perhaps much later.

McCASKIE, John A. *Trans.* Formerly with the Hamilton BNCo he began his employment at American BNCo on 24 June 1912. On 11 June 1941 McCaskie became Superintendent of the Transferring Dept.

McCLAIN, Thomas. *Art & Des.* b. Elizabeth, WV 1 Jan. 1934. Following education in Akron, OH he attended Kent State U. where he studied painting. From 1960 to 1962 McClain was employed by NBC Graphics; the following four years were spent with the NYC firm of Lippincott & Margulies. As a free-lance artist and the head of his own company this artist did a variety of design work including record album covers. He was with American BNCo from 1980 until the company was purchased in 1990. When Bank Note Corporation of America moved into the same premises, Mr. McClain was engaged by them. His design work includes the Costa Rica 100 colones, ca. 1985; Venezuela 10 bolivares, (*Battle of Ayacucha*), P57; the 1980 Democratic Convention ticket; and Master Card travelers checks, about 1981.

McCLOSKEY, A. *ScrpEng.* He was with the Hamilton BNCo in 1913.

McCLOSKEY, Victor Stephen, Jr. *Des.* b. Brooklyn, NY 2 May 1908, d. Springfield, VA 22 Sept. 1988. He studied art at the Corcoran Gallery School of Art. His apprenticeship at the BEP began on 11 Dec. 1926; he was appointed as an engraver on 13 Dec. 1930. McCloskey was named a designer on 26 Apr. 1934; he continued in this capacity until retirement on 30 Dec. 1965. He designed about 125 stamps for the BEP. His first designs were the 2¢ and 5¢, A224 & A225, Olympic Games stamps of 1932.

McCOSKER, Andrew. *ScrpEng.* He was employed at American BNCo from 8 Aug. 1922 until 4 Jan. 1935.

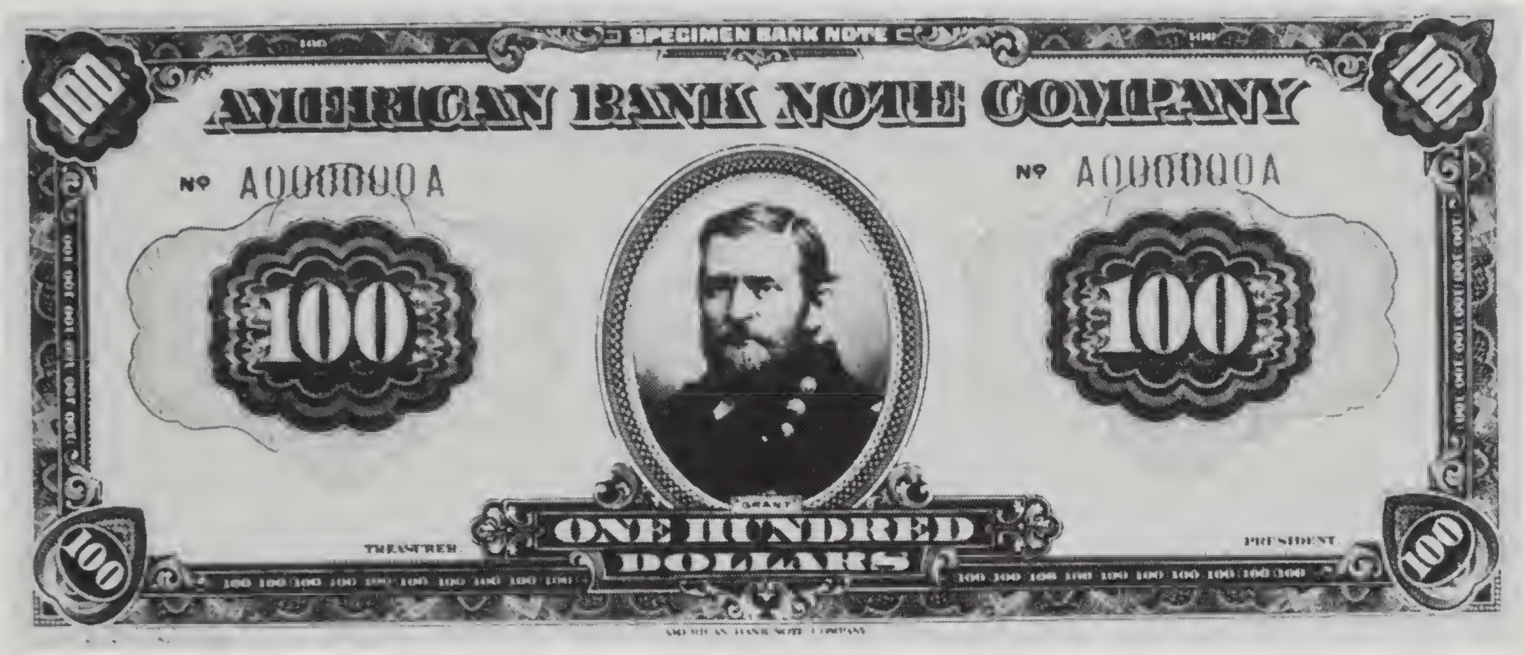
McCOY, George "Pop(s)." *LtEng.* b. ca. 1825, d. ca. 1890. For the reproductions (about 1875) of the 1847 postage stamps for collectors, he engraved the lettering and frames. McCoy was with American BNCo in 1887.

McCUNE, Jno. W. This printer was with Rawdon, Wright, Hatch & Edson in 1848.

McDONALD, _____. *Trans.* (see Amendt.)

McFARLANE, _____. *Trans.* (see Amendt.)

McGAHAN, George. *Des.* He was employed at American BNCo from 19 October 1925 until 6 April 1945 when he resigned due to poor health. McGahan's name appears in the border of the face, with a portrait of U.S. Grant, and back of a specimen, advertising note for ABNCo; the dates in the borders are, respectively, 16 Sept. and 16 Oct. 1931.



McGAHAN, James. This prover was employed by American BNCo on 17 Jan. 1912.

McGINNIS, _____. He was employed in the Engraving Dept. of American BNCo in 1881.

McGOWN, _____. *Trans.* (see Amendt.)

McKECHNIE, R. *Trans.* d. 21 Sept. 1933. Formerly employed at International BNCo he was employed at American BNCo from 1892 until 1933.

McKELL, _____. *Trans.* (see Amendt.)

McKELLAR, T. *Trans.* He was employed at the Bureau of Engraving and Printing ca. 1900.

McKENZIE, _____. *Trans.* (see Amendt.)

McKIERNAN, John F. *LtEng.* On 10 Dec. 1924 from another department at American BNCo he transferred to the Engraving Division.

McLAIN, Thomas. *Des.* He designed the Venezuela 10 bolivares (back), P51 at ABNCo.

McLAVERTY, Joseph. *LtEng.* He began his apprenticeship with Security-Columbian BNCo at 16 and was employed there as late as the 1960s.

McLEES, Archibald. *LtEng.* b. England 1817, d. Rutherford, NJ 1890. He was in NYC from 1841 to the 1860s, with Danforth, Bald & Cousland in 1851. McLees was one of the first engravers to be employed at the Bureau of Engraving and Printing. His brothers Daniel, James and Michael were also engravers.

McLEES, John. *LtEng.* In 1851 he was with Danforth, Bald & Co. He is the son of Archibald McLees.

McLEOD, Donald R. *LtEng.* b. Washington, DC 1 Nov. 1900, d. 9 Aug. 1965. At the age of 16, on 28 Sept. 1917, he went to the Bureau of Engraving and Printing as a plate cleaner; in 1918 he began his engraving apprenticeship. McLeod attended the Corcoran Gallery School of Art for two years. In 1922 he was named an engraver and in 1944 he became Supervisor of Engraving. Mr. McLeod retired on 30 October 1964.

McLURE, J.W. He began his employment with a one of the predecessor firms of American BNCo firm in 1834; in 1884 he completed fifty years of service. The capacity in which he was employed is unknown.

McMAHON, L. He was in the General Engraving Division of American BNCo in 1911.

McNAMARA, W. *LtEng.* He was employed at American BNCo from 1906 until 30 April 1939. Until 12 May 1919 McNamara worked at the Boston facilities of ABNCo.

McPHEARSON, _____. *Art & Des.* He created art work for American BNCo.

McVIEGH, John. *Prv.* He was employed at ABNCo from 1 June 1907 until 29 Jan. 1931.

MEADOWS, Christian. *Eng.* b. England ca. 1814. He came to the U.S. before 1839. Following marriage in Boston he remained there until 1849. He was imprisoned in Windsor, VT for a plot to counterfeit bank notes. While incarcerated, Meadows engraved a vignette for the NH State Society for the Advancement of Agriculture, Manufacturers, Science and the Arts diploma. He was pardoned on 4 July 1853 and then worked as an engraver in Windsor until 1859. He was one of the best engravers in New England.

MEDLEY, Peter. (see Joseph Cooke.)

MEEHAN, Francis. *Prv.* He began his employment at American BNCo on 12 April 1921 and was still employed in 1942.

MEEKER, Alvin Newton. *Trans.* b. Irvington, NJ 1826, d. 5 Nov. 1895. Following studies with Cyrus Durand he went to ContBNCo in 1867. Meeker worked at the Bureau of Engraving and Printing under Thomas F. Morris in 1894. His last work at the BEP was on the 1896, $5 educational note.

MEEKER, R. *LtEng.* He was employed at the Homer Lee BNCo about 1900.

MEER(E), John. *Eng.* This engraver also made steel plates; he operated at 4 S. Seventh St., Philadelphia in 1817. A bank note specimen, patented 1 July 1815, was included in a letter dated 18 June 1816 to Thomas Jefferson. The letter described the superiority of Meer's work over other engravers (Dunlap III: 318).

MEGEE, Garnett W. *Des & LtEng.* He was employed at the Bureau of Engraving and Printing from 20 Apr. 1936 to 1 Apr. 1946.

MEIGNELLE, James. *Mod, LtEng & ScrlEng.* He was the commercial agent for Danforth, Wright & Co. in 1853. Meignelle was employed at American BNCo as early as 1859 and was with the Continental BNCo in 1866.

MEISSNER, Alvin Richard. *Des.* b. Dresden, Germany 3 Apr. 1875, d. 9 July 1949. He came to the U.S. in 1879. He received private instruction in Detroit, MI including classes at Gies and Paulus Art School. In 1889 he was with the Detroit Lithographic Co. and from 1899-1905 with the Calvert Lithographic Co. Meissner then joined the U.S. Geological Survey as an artist and engraver. In 1925 he joined the Bureau of Engraving and Printing and retired on 30 Apr. 1946. He designed about 75 postage stamps at the BEP and is credited with designing the 1928 series of bank notes. He did design work for Perrian-Keydel in Detroit, the Bureau of National Literature and Art in Washington, D.C. and NYC; Brucher & Kessler Co., and, the Winston Pub. Co. both in Philadelphia; and Swift & Co. in Chicago.

MERKH, Alfred. *Eng.* Altman states that he was employed at the Bureau of Engraving and Printing in 1911. Merkh is no relation to the following engraver.

MERKH, Alfred. *LtEng.* b. Camden, NJ 17 April 1928. Following his education in Camden, Merkh studied in the Engraving Dept. at the Philadelphia School of Horology (watchmaking). He joined E.A. Wright in 1947 and initially worked under Harry Kurley. At this Philadelphia company he engraved the lettering for Liberian stamps. Merkh joined Security BNCo in 1964, where among other things, he engraved stamps for Cuba. His numerous stock certificate work includes Hexcel and Commercial Credit Corp. of America.

MERKT, Albert. *LtEng.* d. 22 Jan. 1945. He was employed at American BNCo from 1898 until 12 July 1934.

MERRIN, _____. *Trans.* (see Amendt.)

MEYER, _____. *Eng.* He was employed at the New York BNCo ca. 1910.

MIDDLETON, William B. *PlPr.* In 1914 he was working at the Bureau of Engraving and Printing.

MILDEER, Howard. *Des.* He was with American BNCo in the 1950s, and later at the Bureau of Engraving and Printing.

MILKS, Charles H. *LtEng.* He transferred from the Canadian BNCo in Ottawa to American BNCo on 16 Feb. 1920 and resigned on 16 Dec. 1921. Milks, who began his employment in Ottawa on 22 Nov. 1911, returned there on 11 Sept. 1922.

MILLER, John B. Following work at the New York BNCo he moved to the Transfer Division of American BNCo on 22 Feb. 1896. His pension began on 12 July 1934.

MILLER, James T.W. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s.

MILLER, Robert L. Jr. *Des.* b. 9 Mar. 1911. He was educated in Washington, DC including art studies at George Washington U. and the Corcoran Gallery School of Art. Following employment in other U.S. government offices Miller joined the Bureau of Engraving and Printing on 3 June 1936; he was there as late as 1951.

MOLANDER, Jonas C. *LtEng.* b. ca. 1850, d. ca. 1900. He was employed by both the National BNCo and American BNCo, the latter perhaps until 1900.

MONINGER, James. *LtEng.* He was employed at Security BNCo in the early 20th century.

MONINGER, William M. *LtEng & GLO.* He was employed at Security BNCo in the early 20th century.

MONTGOMERY, Charles. *LtEng.* b. ca. 1850, d. ca. 1905. He engraved in the Philadelphia office of American BNCo before heading the Design and Engraving Division at Western BNCo.

MONTGOMERY, Frederick W. *LtEng.* b. Philadelphia, PA 18 Jan. 1862. He was appointed a script engraver at the BEP on 19 July 1898, but, was released on 30 Sept. 1900 due to an excess of engravers. He returned on 26 July 1920. A memo dated 24 Sept. 1924 referred to a 6-day period of absence without leave, a "frequent occurrence." "I will say," said Montgomery in a letter of 6 October 1924, "that I have been irregular in my attendance in the past, but will in the future conform strictly to the rules of the Bureau ...if given another chance." He was dismissed on 31 Oct. 1924.

MOODY, Steven. *Art & Graphic Des.* b. Cairo, Egypt 28 July 1949. Due to his father's profession, Mr. Moody lived in Egypt, England and France. He studied advertising and sales at Chamberlayne Jr. College in Boston and for three years attended Morris Harvey College in Charleston, WV where he switched to art. After a variety of occupations Moody was employed in the proving room at ABNCo in 1977. In 1979 he was transferred to the Design Division where he was the color specialist until 1990 when ABNCo was purchased by USNBCorp.

MOONEY, James M. *PlPr.* b. Philadelphia, PA 4 Dec. 1870. He joined the BEP as a plate printer on 21 May 1908; he was removed on 30 June 1913 and reinstated on 10 July 1913 as a skilled helper. Mooney was again named a plate printer on 22 August 1914. He resigned on 26 Dec. 1918. Mooney was employed at the SecBNCo before joining the BEP.

MOONEY, John A. *Sid.* He joined the Bureau of Engraving and Printing as a transferer on 20 June 1898 and became a siderographer on 5 July 1922. He was suspended on 10 April 1925 for two days "for gross carelessness in transferring three notes upside down on a $10 Federal Reserve Face Plate, #22459, which will probably necessitate canceling it." Mooney retired on 31 March 1937.

MOORE, James. *Trans.* He was employed in the Cincinnati office of American BNCo in 1860.

MOORE, John. *Des.* This older brother of Robert Moore, also a designer, was with Rawdon, Wright, Hatch & Edson.

MOORE, Robert. *Des.* J.P. Major mentioned this engraver as being with Rawdon, Wright & Hatch in New York City and New Orleans.

MOORE, Thomas. A native of England, Moore operated a copperplate and lithographic shop at 204 Washington St., Boston, MA. He organized the New England BNCo.

MORRIS, E. This bank note printer resided in Philadelphia in the 1830s. The 5 Dec. 1837 edition of *Bicknell's* included an advertisement; he would produce documents from his xylographic (woodcut) press that would be difficult to counterfeit. "The dies, ends, ornaments, etc. are engraved for the exclusive use of the subscriber in his own establishment.... The common types can be had at any foundery (sic), and can be imitated by every boy in a printing office...." "...from steel plates executed in the highest style of bank note engraving, are also furnished on the best bank note paper...."

MORRIS, George. *Trans.* He was employed at the Bureau of Engraving and Printing about 1900.

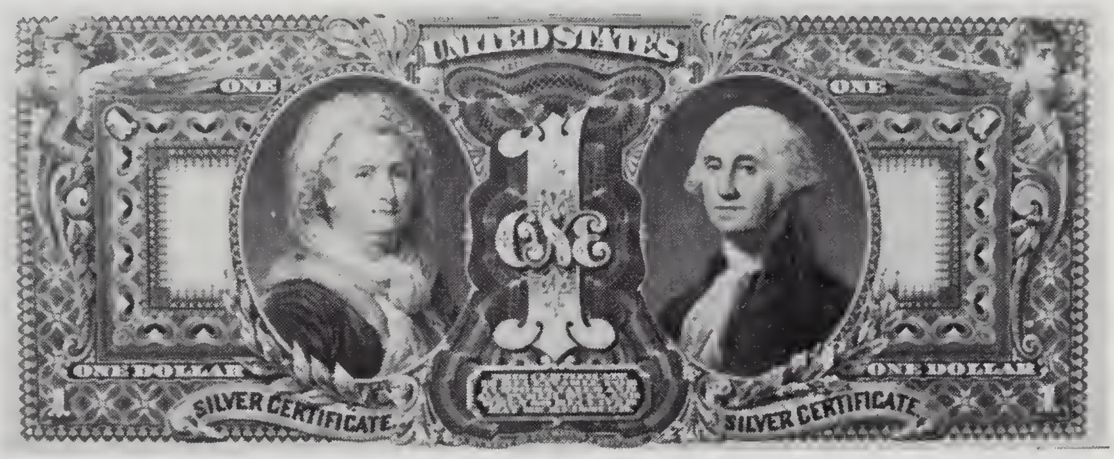
MORRIS, Martha. *Des.* b. NYC 31 Mar. 1865, d. 1913. At 19 this younger sister of T.F. Morris joined American BNCo. In 1887 she and her brother moved to the Homer Lee BNCo. Martha Morris joined the International BNCo in 1894 and remained for seven years. Her stock certificate designs include the B&O Railroad (1898); Jalapa Railroad & Power Co., NJ (189_).

MORRIS, Thomas F. *Des.* b. NYC 12 Sept. 1852, d. Brooklyn, NY 18 Jan. 1898. To please his parents, he worked in the law office of J. Warren Lawton, but, to satisfy his creative talent he studied drawing in the evening. On 20 Apr. 1869, at age 16, he began his apprenticeship at American BNCo under J.P. Major and W.C. Smillie. Ten years later he became the head of the department. Morris joined the Homer Lee BNCo on 3 Jan. 1888 as the Superintendent of Design and Engraving. He remained there until he moved to the Bureau of Engraving and Printing on 1 Nov. 1893. At the peak of his career, an undisclosed, debilitating illness brought his life to an end. His designs are considered among the best, especially the McKinley-Hobart Inaugural Ball Program.

United States Federal Bank Notes

(backs and portions of face)

$1 SC, H45 & 46. The portraits of Martha and George Washington were engraved by C. Burt and A. Sealey respectively.



$2 SC, H185 & H186.

$5 SC, H358-360.

United States Bonds

(face designs)

$50, X169A.
$100, X169B.
$1,000, X169D.
$10,000, X169F.
$10,000 (face & back), X184B.

Foreign Bank Notes

Bolivia
1 bolivar, PS221.
Brazil
2 mil reis, PA256.
5 mil reis, PA161 & PA264.
10 mil reis, PA262.
20 mil reis, PA259.
200 mil reis, PA248.
500 mil reis, PA243.
Colombia
5 pesos, PS867.
Costa Rica
1 peso, PS221.
2 pesos, PS222.
5 pesos, PS223.
25 pesos, PS225.
Ecuador
100 sucres, PS162.
Haiti
1 gourde, P91.
2 gourdes, P76 & P91.
Mexico
1 peso, PS445.
5 pesos, PS446.
10 pesos, PS447.
20 pesos, PS259 & PS448.
50 pesos, PS260 & PS449.
100 pesos, PS450.
500 pesos, PS451.
1,000 pesos, PS452.
Spain
100 pesetas, P11.
Venezuela
100 bolivares, PS123.
400 bolivares, PS124.
800 bolivares, PS125.

Corporate Bonds

Central RR of NJ; Grand Central RR; Sault St. Marie Bridge Co.; St. Louis & Chicago RR (script); Union Pacific (all ABNCo).

East PA Railroad; Everett Coal & Iron Co. Interstate Rapid Transit; New York & Ohio River; South PA Railroad (heading); Williamsport & Binghamton (RR) (all HLBNCo, 1888).

Stock Certificates

Cato Coal & Coke Co.; Colorado Central Consolidated Mining Co.; San Juan S.&M. Co. (all HLBNC).

Miscellaneous

El Salvador 3¢ stamp, A7.
Grant National Monument Association, use uncertain.
U.S. House of Representatives pass (1897).
U.S. newspaper and periodical stamps, 1895 redesign.
U.S. postal notes (1887-1891 by ABNCo).

MORRISON, Joseph M. *Eng.* He was a partner in Morrison & Crowther in Cincinnati from 1853 to 1860.

MORSE, Hazen. *Eng.* Morse, also a silversmith, was in Boston from 1818-1843. He was with the New England BNCo from 1833-1837, then headed the Senefelder Lithographic Company until 1843.

MORSE, Nathaniel. *Eng.* b. 1688, d. Boston, MA 17 June 1748. As a goldsmith he was a partner with Thomas Edwards in 1730. An invoice dated 1735 signed "Nat Mors," for engraving a plate for Massachusetts paper money, is in the MA Archives. He also engraved Connecticut paper money dated 10 July 1733.

MOSS, Edward A. *Eng.* b. PA, d. NYC 1860. He was a member of Bald, Cousland & Company when American BNCo consolidation took place.

MUIR, David. *ScrpEng.* With the exception of service time during World War I he was employed at American BNCo from 22 June 1912 until 28 June 1939. He then did free-lance work for Security BNCo.

MUIR, Donald R. *ScrpEng.* He was employed at the Homer Lee BNCo and later at American BNCo from 1918 until 1970.

MUNGER, George. *Art & Eng.* b. Guilford, CT 17 Feb. 1781, d. New Haven, CT 2 July 1825. He formed a partnership with Nathaniel Jocelin in 1816.

MUNSON, Joseph B. *Eng.* He was affiliated with S.S. Jocelyn and G.K. Stillman.

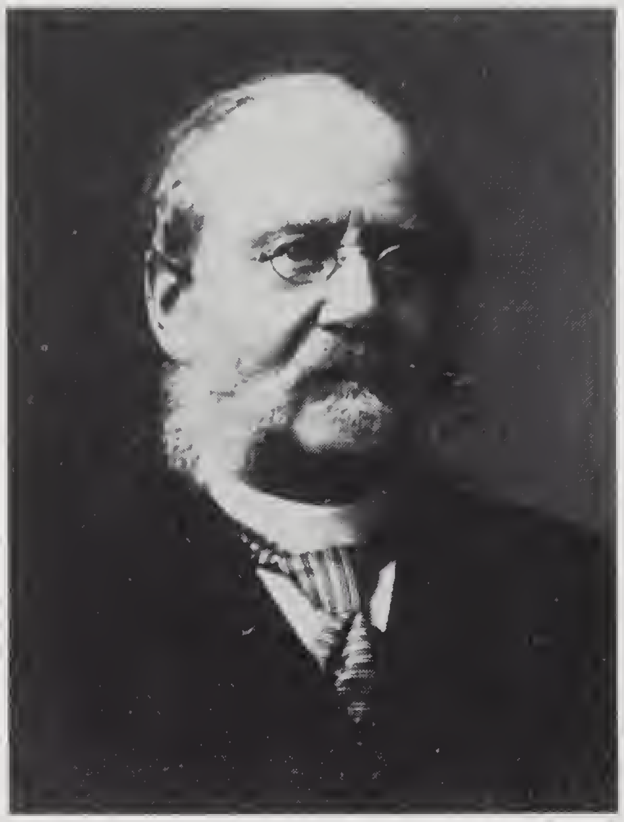
MUNSON, Samuel B. *Eng.* b. CT 29 May 1806, d. Cincinnati, OH 6 Apr. 1880. As his father did, he engraved for S.S. Jocelyn. About 1836 Munson became a member of Doolittle & Munson in Cincinnati.

MURDOCH, John. *Art & Des.* b. 1836, d. Baltimore, MD 16 Nov. 1923. Murdoch was working as an architect and civil engineer in Baltimore just after the Civil War. He could have been the Murdoch that was working in St. Louis in 1854 and San Francisco in 1856. *Lady Vernon*, a trotting, gray mare and two watercolors in the Maryland Historical Society are attributed to him. He received Patent No. 31,820 dated 26 Mar. 1861. It consisted of a "bill, the entire printing, wording, or lettering of which is embodied and contained within the form of a large numeral, representing the denomination of the bill so that the whole bill itself must be destroyed before the numeral can be changed." He is the designer of an 1862, $1 USN essai; *The Surrender of General Burgoyne* is the subject. Murdoch is the probable designer of six IBTN illustrated in Hessler (1979, 77-82).

MURRAY, Ed. J. *Prv.* He was employed at ABNCo from 11 March 1913 until mid 1943.

MURRAY, George. *PEng.* b. Scotland ca. 1770, d. Philadelphia 2 July 1822. After studies with Anker Smith he was working in London. He came to the U.S. ca. 1798 and settled in the south; he moved to Philadelphia in 1800. In 1810 he was one of three to form Murray, Draper, Fairman & Co. This firm "will be remembered for two fundamental contributions: (a) it established the value of combining arts and techniques as a safety measure; and

Alfred Major



James P. Major

John Masure

Bass Otis

Walter Pawling

Designers and engravers at the National Bank Note Co. in 1879. Standing, left to right: James MacDonough and Alfred Jones. Seated: Richard Berry, Thomas J. Gleason, Christian Rost and Marcus Baldwin.

(b) it established world supremacy of American methods (Griffiths 26). At the time of his death the company name was Murray, Fairman & Co.

MURRAY, Joseph. *Eng.* He was employed at American BNCo in 1911.

MYERS (MEYERS), Edward E. *LtEng.* b. Washington, DC 9 March 1865, d. Washington, DC 11 Jan. 1933. He joined the Bureau of Engraving and Printing on 24 Jan. 1881 to work in the paper-wetting room at 50¢ per day. While he studied art, Myers advanced through a variety of positions at the BEP. On 1 July 1888 he was named an engraver; on 1 July 1926 he was appointed Superintendent of the Engraving Division, and retired on 24 January 1931. After 1900 this engraver used the spelling of Meyers.

N

NATIONAL BANK NOTE CO. Members of Danforth, Perkins who did not join American BNCo in 1858 organized this company; incorporation was in Nov. 1859. Among the founders were: George H. Danforth, Lloyd Glover, William D. Nichols, James MacDonough Fitch Shepherd and Samuel Stiles. In addition to MacDonough the first engravers were: Cyrus Durand, James Smillie, Joseph I. Pease, W.E. Marshall, George W. Thurber and J.P. Ourdan. In order to secure contracts it was necessary to have state laws passed that would counter, disavow or sidestep laws that, it was said, favored processes owned by ABNCo. The first major contracts came in 1860. On 15 Aug. 1861, NBNCo was chosen to prepare all U.S. postage stamps until 15 Aug. 1867. Contracts for U.S. fiscal paper followed. In 1862 the need for the first U.S. (legal tender) notes was so great, ABNCo and NBNCo were obligated to collaborate in preparing them. Some notes bear the names of both companies. In 1878 the U.S. Treasury assumed total responsibility to produce all U.S. stamps, bank notes and fiscal paper. Although work for other countries continued, the major client, the U.S. government, was lost. On 27 Dec. 1878 NBNCo, ContBNCo and ABNCo entered a consolidation under the name of the latter company.

NATIONAL BANK NOTE CO. This company, with no relationship to the preceding company, operates in Cleveland, OH. The company logo appears on a Lake Ports Supply Co. stock certificate (1930).

NAUTH, George. *ScrpEng.* He began his employment at American BNCo on 1 July 1912; it is uncertain if he remained with ABNCo.

NEAGLE, John B. *PEng.* b. England ca. 1801, d. Philadelphia 1866. From 1815 until his death he worked for bank note firms in Philadelphia. His son, Lewis, was also an engraver. John Neagle, Sr., his father and teacher, painted *Pat Lyon at his Forge*, a subject used on numerous, U.S., obsolete bank notes.

N, E.C., *PtEng.* These initials appear in the engraving records of Republic BNCo. There, this engraver executed a portrait of DeWitt Clinton.

NEENAN, John. *Des.* He was employed at American BNCo in 1945.

NELGROVE, Michael. *PEng.* b. Epson, Surrey, England 27 Feb. 1940. He received a diploma in art and design from Wimbleton College. In 1955 Mr. Nelgrove began his apprenticeship at Bradbury Wilkinson where he later engraved stamps and bank notes for a variety of countries. This engraver joined the United States BNCorp in February 1968 where he engraves subjects for bank notes and other security instruments.

NEWBAUER, CHARLES H. *PEng.* He was employed at American BNCo from 1932 to 1937.

NEW ENGLAND BANK NOTE CO. was organized in 1833 and was owned jointly by Colonel Asa Lam and Isaac Carey. Abraham Perkins announced in the 9 March 1833 edition of the *Daily Evening Transcript* of Boston that this engraving company would move from Newburyport, MA to Boston, although there is no directory listing before 1837. Three additional partners were W.S. Pendleton, Hazen Morse and Nathaniel Perkins. On 1 May 1848 NEBNCo was absorbed by Rawdon, Wright, Hatch & Edson.

NEWMAN, Samuel. *LtEng.* He was employed at the New York BNCo ca. 1910.

NEWMARCH, Joseph. He printed New Hampshire notes dated 1759.

NEWTON, W.G. In 1863 he submitted a model for a $5 national bank note. The design is illustrated in *The Numismatist* (June, 1952, p. 574).

NEW YORK BANK NOTE CO. Waterman Lilly Ormsby was the sole proprietor of this unincorporated company at 50 Wall St. in NYC from 1854 to 1862.

NEW YORK BANK NOTE CO. This firm succeeded the Kendall BNCo in 1888 at 87 Liberty St. in NYC. In 1891 they moved to the offices previously occupied by the Hamilton Bank Note Engraving & Printing Co. The NYBNCo was in operation until 1898. Another company by this name was organized by W.L. Ormsby, Sr.

NICHOLS, Albert E. *Eng.* He was employed at American BNCo from 1916 until 1966.

NICHOLS, Frederick B. *Eng.* b. Bridgeport, CT 1824, d. 1906. After his apprenticeship with Rawdon, Wright, Hatch & Smillie he formed his own business. About 1846 he published *Nichols Illustrated New York.* He invented a type of relief engraving in 1848. After 1858 he concentrated on inventions. Nichols spent some time in Canada but, returned to NYC to engrave for a year with W. Wellstood. He retired to Bridgeport.

NICHOLLS, Robert. After work at Kihn Brothers he moved to the Transfer Division of American BNCo on 17 June 1907.

NICHOLS, William D. *LtEng.* b. ca. 1835, d. ca. 1880. He was with Danforth, Wright & Co. in 1858, and was a founder of the National BNCo in 1859. In the NYC Directory for 1874 Nichols is listed as a printer.

NICHOLS, Ellsworth. *LtEng.* He began his employment at American BNCo on 9 December 1896. Nichols transferred to New York from the Boston facilities of ABNCo in May 1919.

NINGER, Emanuel ("Jim the Penman"). *Counterfeiter.* He came to the U.S. from Rotterdam in Dec. 1882 aboard the ship *Leerdam.* He ultimately settled in Flagtown, New Jersey and for years drew, by hand, U.S. bank notes. After one of his regular trips to New York City, Ninger, on 28 March 1896, was about to return to New Jersey. Before he left a saloon on Cortland Street he asked to have a $50 bill changed. The $50 note was placed on the bar. A few minutes later, after Ninger had gone, the bartender noticed ink on his hands. The moist bar surface caused the ink to run; this was Ninger's downfall. On 20 May 1896 he was sentenced to six years; he served four years and two months. Ninger's notes were precise in every way except one: he did not include the credit to the "Bureau of Engraving and Printing" in minute letters on the backs. Perhaps his ego would not allow him to credit someone else for his own work.

NOBLE, R.E. This one-time employee at American BNCo formed his own company in 1893.

NORTHERN BANK NOTE CO. was first established in 1891 as Northern Lithographing Company by Samuel W. Earle, formerly of Western BNCo; his son, S. Edwin Earle, succeeded him upon his death in 1917. In 1929 H.E. Speller joined the company to set up an engraving department. Mr. Speller had worked as a siderographer and geometric lathe operator for ABNCo and ColBNCo. After the Depression the company was divided in 1936. The security division was sold to Mr. Speller and his associates; they used the name of Northern BNCo. The commercial division was sold to W.A. Krueger. Mr. Speller, president since 1939, died in 1945 and the company was sold to J.D. Schneider, who hired N.H. Whiteside, Jr., a 25-year veteran at ABNCo. At that time Northern BNCo had its own plates and plates from Quayle & Sons. Northern BNCo performed intaglio printing for itself and others, including Columbian BNCo and E.A. Wright BNCo, using their plates. In 1959 N.H. Whiteside, Jr. and N.H. Whiteside, III purchased Northern BNCo. In 1972 N.H. Whiteside, III resigned and Peter Whiteside, who joined the company in 1960, became president. Northern BNCo, in Countryside, IL, has become the largest printer of municipal bonds in the U.S. It also prints stock certificates, other security documents, and gift certificates.

NORTINE, Harry. *LtEng.* He was employed at E.A. Wright BNCo.

NOYES, F.H. PEng & LtEng. He was engraving at the Bureau of Engraving and Printing in 1877. Noyes engraved the portrait of *Chief Ouray* on the MPC $20 Series 692.

NUTTER, Howard Steven. *LtEng.* b. Montreal, Canada 5 June 1877, d. 1 Aug. 1936. His career began at the British American BNCo in Montreal. In 1894 he came to Philadelphia and engraved for E.A. Wright; in 1901 he moved to Bailey, Banks & Biddle. The following year he was at American BNCo in Philadelphia and on 12 June 1916 went to the New York City office. Nutter joined the Bureau of Engraving and Printing on 11 Sept. 1917 where he remained until retirement on 29 July 1936.

O

OAKLEY, Frank F. *Eng.* Working in Boston in 1860, he might have engraved bank notes.

O'BRIEN, John. *LtEng.* d. 12 April 1913. He engraved for the Homer Lee BNCo ca. 1900 and International BNCo; he joined American BNCo on 14 Dec.1911.

O'BRIEN, Thomas J. *Eng.* He was employed at Jeffries BNCo ca. 1935.

OCHS, Hermann. *LtEng & ScrpEng.* b. Pforzheim, Germany 17 January 1925. Mr. Ochs was educated, including his art instruction, in Pforzheim. He was first schooled as a jewelry engraver. In addition he engraved small plates from which watch dials were stamped. Mr. Ochs was brought to the U.S. in 1955 to work for the Spaulding Co. There, he engraved jewelry and wedding invitations. In 1972 he joined the Security-Columbian BNCo; he retired in 1988. Among the hundreds of assignments at SecColBNCo, Mr. Ochs' work appears on certificates for AAR Corp.; Advanced Micro Devices, Inc.; First Bankers Corp. of Florida; Missouri Pacific RR Co.; a certificate of deposit for Scotiabank; and the State of Connecticut motor vehicle title.

OERTEL, Johannes A.S. *Art & Eng.* b. Furth, Bavaria 2 Nov. 1823, d. Vienna, VA 9 December 1909. After painting and engraving studies in Munich he came to Newark, NJ in 1848. To earn his living Mr. Oertel taught drawing, painted portraits and engraved bank notes. In the 1860s he submitted art work to American BNCo. In 1871 this artist became an Episcopal priest. He retired in 1895 to paint a series called the *Redemption*.

Foreign Bank Notes

Canada
Cattle on the Road (eng. J. Smillie), $5, PS1483.
Chile
Female and Children (art only by J. Oertel), 50 pesos, PS112.
Mexico
Cattle on the Road (eng. J. Smillie), 10 pesos (back), PS164.
Uruguay
Columbia (eng. J. Bannister), 50 pesos, PA106.

Miscellaneous

Arms of New Jersey (eng. O.G. Hanks), State Bank of New Brunswick $1.
Cattle on the Road (eng. J. Smillie), Montgomery Palace Stock Car Co. stock certificate (1881).
The Union (eng. A. Sealey): $100 NBN, H1151-1183; $100 NGBN, H1207-1211d.

O'FLAHERTY, Edward T. *LtEng.* He served his apprenticeship at E.A. Wright BNCo about 1930.

OLDHAM, Edmund. *Pant.* He was living in Brooklyn, NY in May 1866 and was employed at the National BNCo. Patent No. 54,759, which relates to pantagraph work, is recorded in his name.

OLIPHANT, James. *Eng & Pr.* He engraved South Carolina notes dated 15 Nov. 1775.

OLIVER, William. *LtEng.* He was employed by the Homer Lee BNCo.

O'NEILL, Charles J. *Prv.* He was employed at American BNCo as late as 1942.

O'NEIL, Jerry. *Pr. Prv.* He began his employment at American BNCo on 13 March 1909.

O'NEILL, John A. *PEng & PtEng.* b. NJ 1840, d. ca. 1891. He probably worked independently in NYC before joining the Bureau of Engraving and Printing on 28 Apr. 1885 as Superintendent of Engraving. He was the mayor of Hoboken, NJ in 1876.

ORMSBY, Waterman Lilly, Sr. *Eng, Inv & Sid.* b. Hampton, Wynkham, CT 1809, d. Brooklyn NY 1 Nov. 1883. In 1825 he was a blacksmith's apprentice in Rochester, NY. After one year (1829) of study at the National Academy of Design he worked in Albany and Rochester, NY, and in Lancaster, PA for Carter, Andrews & Co. Ormsby settled in NYC about 1840 and was almost immediately recognized for his many talents. He believed the best deterrent against counterfeiting was a vignette-subject that occupied most of the space on the face of a note.

Among the 24 inventions of this mechanical wizard are a transfer press, a ruling machine and a grammagraph; this machine engraved directly on steel from medallions. In addition to being a founder, he was one of the first, and highest paid, employees of the ContBNCo, and was the sole proprietor of the unincorporated NYNBCo. Among his treatises on bank note engraving are: *A Description of the Present System of Banknote Engraving* (1852) and *Cycloidal Configurations, or the Harvest of Counterfeiters* (ca. 1862). The outspoken Ormbsy and his lack of diplomacy outraged his competitors and those, including Secretary S.P. Chase, from whom he sought contracts. In his *Harvest of Counterfeiters*, feeling persecuted, he wrote that "when the Bank Note Companies saw how the proposed reform would diminish their profits, it became a business to malign me. But, in the ten years struggle that ensued, every Bank Note Company perished, or was absorbed in one establishment. Mine alone remained, and I still remain, the sole representative working engraver, at the head of a Bank Note Establishment, in the entire country...."

United States Obsolete Bank Notes

Boone County Bank, Lebanon, IN $1, $2, $3, $5, $10 & $20.
Carroll County Bank, Sandwich, NH, $1, $2 & $3.
Chemical Bank, Washington, DC.
Drovers Bank of Leavenworth, KS $1.
Indiana Coal Bank, IN.
Potomac River Bank, DC.
Railroad Bank, Washington, DC.

Stamp

Eagle, American Letter Mail Co., L13.

ORMSBY, Waterman L., Jr. *Sid.* b. ca. 1835, d. ca. 1882. He was employed at ContBNCo at two different times: 1863-1867 and 1870-1873. Ormsby's Jack-of-all-trades business card includes the following biography:

Superintendent of Transferring — Continental Bank Note Company
President New York Liberal Club (successor to Horace Greely)
President Board of Managers Abingdon Club
Chief of the Modoc Department, American Institute
Editor *LEE LITERARY JOURNAL*
Member of the Mercantile Library
Member of the Third Universalist Society
Ex-Temporary Stenographer, Superior Court, Part II
Ex-Reporter and Correspondent *NEW YORK HERALD, TIMES and SUN*
Ex-Cerographer
Ex-Spectacle Maker
First Passenger on the Overland Mail Route to California
Apostle of Enlightened Self-Interest
Brother-in-Law of Editor of the *GRAPHIC*
Brother-in-Law of "Jennie June."
Son of the Inventor of the Kaleidograph
Father of Twins
RESIDENCE, 749 GREENWICH STREET
(over the Butcher's Shop)

OSBORN, _____. *Trans.* (see Amendt.)

OSBORN, Harold. *PEng.* b. NYC 1893, d. 9 Apr. 1968. This outstanding etcher began his employment at American BNCo on 20 May 1908; he retired on 11 April 1945. The *Gate in Tartar Wall* was completed on June 1934. Although there is no record of use, this engraving was probably intended for a Chinese bank note.

Foreign Bank Notes

Bahamas
Arms of Bahamas, 4 shillings, P1.
Brazil
(backs, background only, except P116 & P117).
Industry (man kneeling eng. by L. Kauffmann), 10 cruzeiros, P135.
Palacio da Libertade, 20 mil reis (back), P116 & P117.
Proclamaçao da Republica (seated woman holding constitution eng. by W. Jung; background by H. Osborn), 20 cruz., P136 & P168.
Ships (etched by H. Osborn; eng. W. Ford), 500 cruz., P141 & P172.
Canada
Arms of Eastern Bank of Canada, $5, PS1733 & $10, PS1734.

Foreign Bank Notes
(continued)

Canada
Arms of Nova Scotia (figures by S. Smith), $10, PS633.

China
Arms of Commercial Bank of China, 1-100 taels, PA134-138 & $1-$100, P1-8.
Arms of National Commercial Savings Bank, $1-$100, PS447-456.
China-Bridge, 50-500 yuan, P476-478.
Great Wall, 1-100 yuan, P525-529.
Kwangtung Provincial Bank, $1-$100, PS2421-2424.
Tia Shan (buildings), 5-100 yuan, PS2758-2761.

Costa Rica
Iglesia Parroquidalde Heredia, 50 colones (back), P211.
Sailing Ship, 10 colones (back), P210.

Czechoslovakia
Arms of Czechoslovakia, 500 korun, P19 & P22.

Dominican Republic
Basilica Menor de Santa Maria, 1,000 pesos, P25.
Coffee Industry (art by A. Foringer; eng. with W. Ford), 100 pesos, P23.

Dominican Republic
Puerte del Conde (gate), 50 pesos, P21.

French Indochina
Workers with Baskets (etched by Osborn, eng. by S. Smith), 100 piastres (back), P78.

Greece
Capture of Wild Bulls, 500 drachmai, P102.

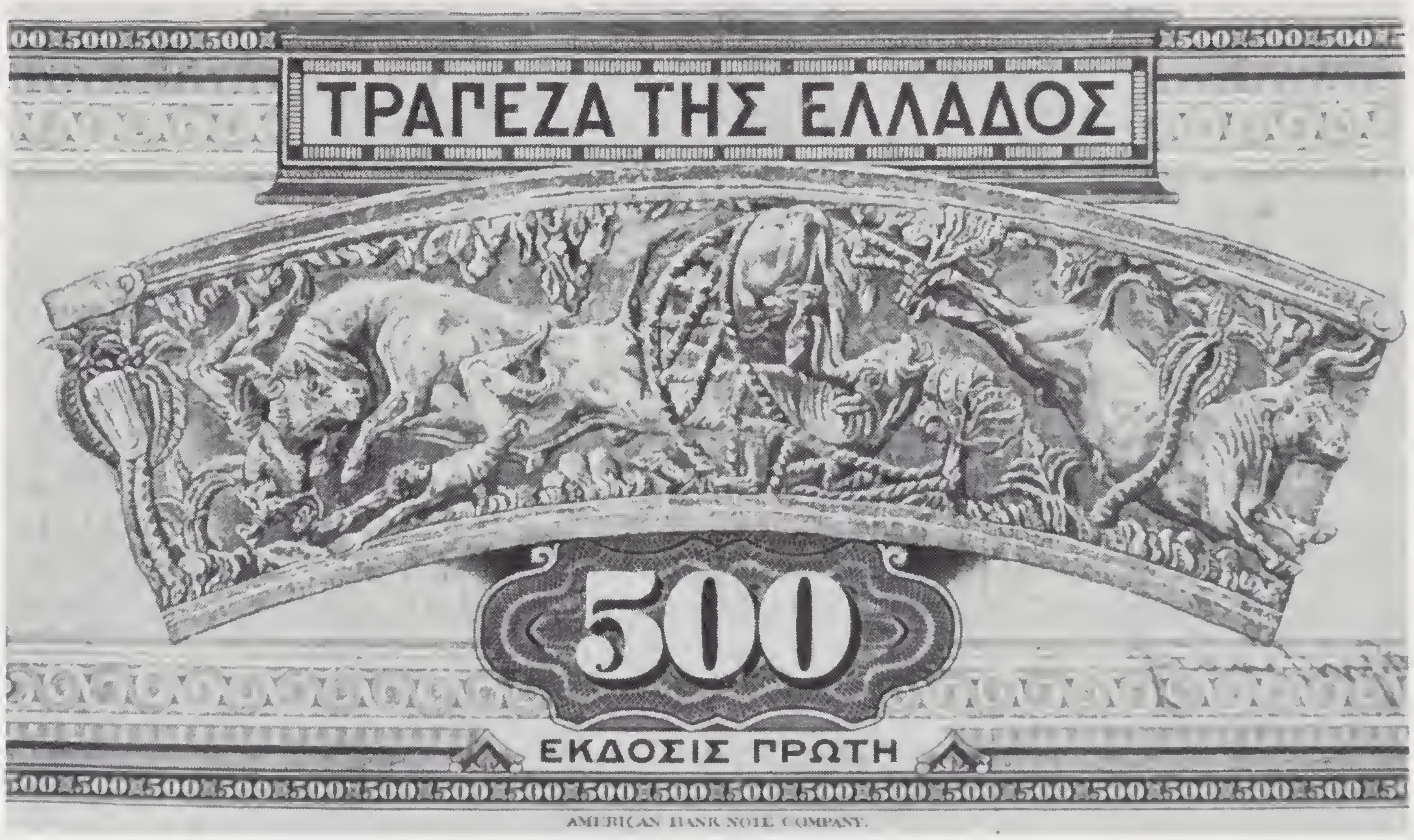
Guatemala
Ara de Tikal (altar stone), 10 quetzales, P94.
Lago de Atitlan, 1 quetzal (back), P92.
Quetzal Bird, 50¢ (back), P91.

Iran
Scrollwork, 10 rials, P19.

Mexico
Palacio de Minero, 20 pesos, P720.
Palacio Nacional (finished by A. Vogel), 10,000 pesos, P722.

Nicaragua
Corinto Harbor, 20 cordobas, P54.

Poland
Peasant Woman (etched by Osborn, eng. by E. Loizeaux), 50 zlotych, P88.



Capture of Wild Bulls, Greece 500 drachmai, P102.

Corporate Bonds

Arms of Connecticut reg. & cp. bds. (1921).
Railroad, Wheeling & Lake Erie Rwy cp. bd. (1949).
Razor, Gillette Razor Co. cp. bd. (1930).
Repairing the Tracks: Central of GA Railway Co. (1926); NY Central Lines (1924).
Waterfalls, Bangor Hydro-Electric Co. reg. & cp. bds. (1925).

Stock Certificates

Bank of Italy, California Symbol (1922).
City Hall & Municipal Building, City of New York Corporate Stock for Transit Unification (1939).
First National Bank of Boston, FNB, Boston (1931).
Globe, BancItaly Corp. (1925).
Gorham Manufacturing Co. Symbol, Gorham Mfg. Co. (1920).
Railroad, Wheeling & Lake Erie Rwy (1936).
Razor, Gillette Razor Co. (1930).
L.C. Smith Building, United Business Corp. of America (1920).
Steamship (eng. with E. Gunn), United Fruit Co. (1916).
Waterfalls, Bangor Hydro-Electric Co. (1925).

Miscellaneous

American Express Symbol, checks (1923).
First Wisconsin National Bank, draft (1920).
Haiti Revenue Travel stamp, 10 gourdes (1927).
Liberia 10¢ stamp, A115.

OSBORNE, George. *LtEng.* d. 14 March 1943. Formerly with International BNCo he joined American BNCo in 1902. Mr. Osborne retired ca. 1 Aug. 1939

OTT, Jacob. b. *Lith.* Frankfurt-am-Main, Germany. He came to the U.S. during mid-1800s. He printed counterfeits of the following $50 notes: Central NB of New York; Third NB of Buffalo, NY; National Broadway Bank of NY; Tradesmen's NB; and First NB of Hanover, PA and First NB of Tamaqua, PA, both $5 notes.

OURDAN, Joseph Prosper. *PEng & PtEng.* b. NYC 16 Feb. 1828, d. Washington, DC 10 May 1881. He spent his apprenticeship under W.L. Ormsby, then engraved independently for book publishers. He worked for Continental BNCo in New York City and probably for American BNCo in Philadelphia. Ourdan was one of the first engravers to come to National Currency Bureau (BEP); he did so after 20 Oct. 1862. Eventually he became Chief of the Engraving Division. In 1867 he joined the National BNCo.

United States Federal Bank Notes

Columbus Discovery of Land, $1 USN, H5-27.
Eagle, $100 GC (back), H1226-1241.
Hamilton, Alexander, USN: $2, H153 & H153a; $50, H926 & H927.
Spread Eagle, $100 USN, H1120-1121a.
Washington, George: FC 5¢, H1506-1509; FC 10¢, H1518-1523b; and FC 50¢, H1579-1585.

United States Obsolete Bank Notes

Calmady Children, The, (by Sir Thomas Lawrence, eng. with A. Jones).

Calmady Children, The

Eagle Bank, Providence, RI, Farmers Bank of Mt. Joy, PA, Kittanning Bank, PA, Sun Prairie Bank, WI, all $1;
Bank of Germantown, PA, Prairie City Bank, WI, both $2;
Beverly Bank, NJ $3;
Bank of the City of Petersburg, VA, McKean Bank of Smethport, PA, both $5;
Neponset Bank, Canton, MA $20;
Thames Bank, Norwich, CT, Worcester County Bank, MA, both $50;
Atlantic Bank, Boston, MA $100.

United States Obsolete Bank Notes
(continued)

Hotchkiss, C., H.G. Hotchkiss & Co.'s Bank, Lyons, NY $1 & $3.

Foreign Bank Notes

Colombia
Calmady Children, The (by Sir Thomas Lawrence, eng. with A. Jones), 50 pesos, PS649.

Mexico
Indian Seated (eng. with A. Jones), 50 pesos, PS212.

OURDAN, Joseph James Prosper. *LtEng.* b. Marseilles, France March 1803, d. Washington, DC 25 Oct. 1874. He was in NYC as early as 1821; he later moved to the Philadelphia office of American BNCo. One year before his son, J.P. Ourdan, left the Bureau of Engraving and Printing, J.J.P. Ourdan began there.

OURDAN, Vincent LaComte. *Eng.* b. Brooklyn, NY 1885. He learned engraving at the Columbian BNCo in Washington, DC from 1875-1878. After engraving at the Bureau of Engraving and Printing he returned to the Columbia BNCo. In 1901 Ourdan went to Japan to teach hand and machine engraving. Numerous patents are registered in his name.

ŌYAMA, Sukeichi. *PEng & PtEng.* b. Kagoshima Prefecture, Japan 1858, d. Japan 1922. At age 15 he went to Yokohama and eventually entered the Takashima School (now Yokohama National University) to learn English. Due to his high scholastic record Ōyama was given a scholarship to study in the United States. Four years later he returned to Japan and was employed as a designer and engraver at the Paper Money Office (now the Printing Bureau) in the Ministry of Finance. As an apprentice Mr. Ōyama probably learned under Edoardo Chiossone, an Italian who was the Chief Engraver. During this time, as a special student, he studied at the Tokyo Art School.

In 1885, at age 27, Mr. Ōyama was sent to the U.S. Bureau of Engraving and Printing to learn the American technique of engraving. He remained at the BEP for five years and then returned to Japan. In 1891, after one year at his previous position in Tokyo, Mr. Ōyama returned to the U.S. to join American BNCo in New York City. During his time at ABNCo he executed at least 13 exquisite, female portraits. In addition to those on the list that follows, he engraved *Gladys* (1895) and *Lolita* (1894), neither were used, and *Zaida* (this appears in reduced form on Costa Rica P157) and three untitled female portraits. Mr Ōyama also engraved 15 small, female heads about the size of a U.S. ten-cent piece; most were used on bond coupons.

In 1900 Mr. Ōyama returned to Japan, probably because of the ugly, anti-Oriental sentiment that was prevalent in the U.S. at the time. In Tokyo he became the senior engraver at the Printing Bureau. His first assignment was the portrait of *Kamatari Fujiwara*. In 1907 Mr. Ōyama was appointed Chief Engraver. He is remembered as one of Japan's greatest engravers, the one who brought the technique of American engraving to Japan. Since Mr. Ōyama worked both in the U.S. and Japan, his work for the Japanese government is also included here.

Foreign Bank Notes

Bolivia
Female portrait, 1 boliviano, PS171.
Brazil
Reverie, 50 mil reis, P103-109.
Zella, 2 mil reis, P11 & P13.
Canada
Reverie, $50, PS1159 & P1170.
Smith, Sir Frank, $20, PS1026.
Zella, $20, PS627.
Hawaii
Haidee, $5, P6.
Japan
Fujiwara, Kamatari, 100 yen, P33.

Japan
Kiyomaro, Wakeno, 10 yen, P36.
Sugawara, Michizane, 5 yen, P34 & 20 yen, P37.
Takeuchi, Sukune, 5 yen, P35.

Mexico
Columbia, 10 pesos, PS330.
Female portrait, 20 pesos, PS291.
Haidee, 50 pesos, PS456.
Mima, 500 pesos (back), PS200.
Venezuela
Haidee, 400 bolivares, PS189.

Corporate Bonds

Haidee, Southern Rwy Co. 5% 1st consol. mort. reg. bd. (1894).

Mima, New Orleans and Western RR Co. 5% 1st terminal mort. cp. bd. (1895).

Reverie, Newport News & Old Point Rwy & Electric Co. 5% gen. mort. cp. bd. (1901).

Simplicity, Carolina Central RR Co. (1898).

A variety of female portraits and profiles appear on coupons for the following bonds:

Atchison, Topeka & Santa Fe Rwy Co. 4% (1910).
Atlanta & Charlotte Air Line Rwy Co. 4½% (1914).
Bangor & Aroostook RR Co., Piscalaquis Division 5% (1899).
Central Pacific Rwy Co. 4% (1899).
Chicago, St. Paul, Minneapolis and Omaha Rwy Co. Equip. Trust (1917).
Chicago Terminal Transfer RR Co.
Col. & Maryland RR.
Corvallis and Eastern RR Co. 4% 1st mortgage (1898).
Detroit Southern RR Co. Ohio So. Div. 4% 1st. mort. (1895).
Great Northern RR Co.
Hocking Valley Rwy Co. 4½% 1st consol. mort. (1899).
Louisville & Nashville RR Co. St. Louis, Division 6% 1st mort. (1921).
Marietta Rwy Co. 4% (1896).
New Orleans City RR Co. 4-5% (1899).
Texas Midland RR 4% 1st mort. (1908).

Miscellaneous

Cleveland, Grover, in *Story of American Bank Note Co.*
Harrison, Benjamin, in *Story of American Bank Note Co.*
McKinley, William, Republican National Convention ticket (1936).

Simplicity, V. Vivandou, Inc. stock certificate.

Thurston, Lorrin Andrews, Hawaii Dept. of Foreign Affairs stamps, 2¢-25¢.

OYSTER, Dixie. (see Dixie Oyster March.)

P

PABODIE, Charles A. This copperplate printer was working in Providence, RI from 1847 to 1860; he was affiliated with Pabodie & Parkhurst in 1857 and 1858. For George Hussey he engraved copies of the No. 2, 5¢ and No. 3, 10¢ Providence Postmaster's stamp. Pabodie "assured himself of the propriety of making these for 'purposes of illustration' and purposely omitted the period after cents on the 5-cent stamp and made the 10-cent stamp 1 mm shorter than the original stamps and kept proofs of each for his records" (Brazer 1941, XX, 1, 110).

PACKARD, _____. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1815 where he is credited with portraits of *Queen Elizabeth* and *Mary Queen of Scots.*

PACKARD, _____. *Trans.* (see Amendt.)

PACKARD, Butler. *Des & Eng.* b. Albany, NY 18 March 1838, d. ca. 1913. At 13, in NYC, he worked as a general utility helper at Danforth, Bald & Co. where his father Rawson was employed. Just over one year later, Packard was attending engravers. In 1853 he and his father went to Danforth & Perkins in Philadelphia, a branch of the Danforth, Bald & Company where he remained until 1857. After painting from nature in western NY, he and his family returned to Brooklyn, NY ca. 1861 so he could join American BNCo. It is possible he spent time with the ContBNCo. About 1869 Packard moved to the National BNCo as a modeler; soon thereafter he headed that department. He remained after the consolidation with ABNCo and retired on 31 Dec. 1910 due to right-hand, muscle and nerve deterioration. About the ABNCo railroad branch room and the adjoining general modeling department Packard wrote the following: "The memory of that double department is pleasant, even fragrant (we sometimes smoked pipe or seegar). The work went on quickly, but there was an atmosphere of geniality about the place, a sense of freedom and satisfaction that made it a privilege to belong to the dept. and never again will there be its like." His autobiography closes with the following: "In designing work, I have probably made more designs for postage and revenue stamps than any other man in the business. And bank note models without number" (Brazer 1944, XXIII: 1, pp. 24-25).

PACKARD, Rawson. *ScrpEng.* b. NY ca. 1813, d. ca. 1890. He was working in Albany, NY with Hall, Packard, & Cushman from 1839 to 1840, and Packard & Gavit from 1840-1841. By 1848 he was in NYC. During 1850 he was a partner with J.P. Ourdan; in 1851 he was with Danforth, Bald & Co. in NYC but moved to the Philadelphia office of Danforth, Perkins in 1853. Packard engraved for American BNCo from ca. 1878 to 1890.

PALM, John, Jr. LtEng. He began his employment at American BNCo on 12 Oct. 1912. Palm resigned on 26 July 1916. He was rehired on 6 Feb. 1925 and worked until 12 July 1934.

PAQUET, Anthony C. *Eng.* b. Hamburg, Germany 1814, d. Philadelphia 1882. He came to the U.S. in 1848. Paquet worked in wood, copper and steel. His work in Philadelphia (1850-1055) and NYC (1855-1858) could have included bank notes. In 1858 Paquet became Assistant Engraver at the U.S. Mint.

PARADISE, John Wesley. *Art, PEng & PtEng.* b. NJ 1809, d. NYC 17 Aug. 1862. He studied with A. Durand and then engraved small portraits for bank notes. He also engraved plates for the *National Portrait Gallery*. Paradise was a founder of the National

Fred Pauling

John Prender

From left to right: Stan Scantlin, Egesto Ligi and Paul Purgason.

Academy of Design. He was the son of John Paradise, the portrait painter. With fellow engraver Charles Burt, Paradise executed the portrait of *Gov. Moultrie* on the Bank of the State of SC, Charleston, $5. He also engraved a portrait of *Gov. Gamble.*

PARKER, James. *Pr.* b. Woodbridge, NJ, d. Burlington, NJ 2 July 1770. He worked in Woodbridge before he went to New York City to work with William Bradford. Later, this industrious printer had presses of his own in New Haven, CT, NYC and Woodbridge, NJ. He printed New York notes dated 10 May 1746 to 15 Apr. 1758, and New Jersey notes dated 15 May 1755 to 16 Apr. 1764.

PARKER, Oliver C. *Trans.* He began his employment at Boston office of American BNCo on 6 Oct. 1896. Parker retired ca. 12 July 1934.

PARSONS, Charles. *Art, Des & Lith.* b. Rowland's Castle, Hampshire, England 8 May 1821, d. Brooklyn, NY 9 Nov. 1910. He came to the U.S. at age nine and was apprenticed at 12 to G. Endicott & Co., lithographers in New York City. Parsons was employed there in 1835; he ultimately became a partner. He did work for J.C. Buttre in 1847. In 1860 he was elected an Associate of the National Academy of Design (NAD) in 1860. About the same time he began a long career with Harper's; in 1862 Parsons headed Harper's Art Dept., where he remained until 1889. During this time he frequently exhibited at the NAD.

Miscellaneous

Adriatic (eng. J. Smillie) Citizens Bank of Louisiana $10.
Gun Boats (eng. J.D. Smillie), Mad River NB, OH draft (1883).
Lake Steamer (eng by R. Hinshelwood), Old Colony Steamship Co. bonds (1881).
Monitor & Merrimac (eng. J.D. Smillie), State of CT Diploma (1863).
Wharf Scene, Columbia 10 pesos, P77.

PARSONS, Stephen A. *ScrpEng.* He was employed at American BNCo from 7 May 1928 until 30 Jan. 1931.

PASSANT, Edward. *ScrpEng.* He was employed at E.A. Wright BNCo and the Philadelphia facilities of American BNCo.

PATERSON, _____. *Trans.* (see Amendt.)

PATERSON, J.T. This bank note company was located in Augusta, GA and Columbia, SC; they produced bank notes for the Confederate States of America. Paterson obtained equipment and materials from Hoyer & Ludwig, consequently there is a similarity in bank note designs.

PATTERSON, Eugene D. *ScrpEng.* d. 26 May 1943. He was employed at ABNCo in 1902.

PATTERSON, Hedley V. *LtEng.* He was employed at Quayle & Son and American BNCo in Boston before 1935.

PAULING, Frederick. *PEng.* b. NYC 8 Aug. 1874, d. Washington, DC 12 Aug. 1939. He studied at the National Academy of Design and with his famous uncle, Charles Skinner. His career began with the Franklin BNCo in 1894; he also engraved for Quayle & Son. In 1897 he was with American BNCo; in 1907 he joined the Bureau of Engraving and Printing but left in 1912 to engrave independently. Ten years later Pauling returned to the BEP. As a boy he was the model for the messenger seen on the first, U.S. special delivery stamp of 1885. The wife of President Harding requested that Pauling's etching be used as the model for the presidential stamp. At the time of his death, Pauling's engravings of Walt Whitman and Peter Paul Rubens were in the Smithsonian Institution.

Bank Notes

Brazil
Female Head, 200 mil reis (back), P76.

Mexico
Gypsy Girl (eng. with E. Gunn), 5 pesos (back), PS101.

United States
GC, $100,000 (back), H1498.

Miscellaneous

Canal Zone 2¢ stamp, PA36.
Female Heads on bond coupons: Port of NY Authority (1927); B.F. Keith Corp. (1926); Maryland Rwy (1924); Detroit Edison Co. (1902); Virginia Carolina Chemical Co. 1st mort. 5% (1908).
Rizal, José, Philippine stamp, PA40.

PAWLING, Walter. *PEng.* He was employed at the Bureau of Engraving and Printing in the 1920s.

PAYNE, ____. *Trans.* (see Amendt.)

PAYNE, Alton H. *LtEng.* He was employed at the Bureau of Engraving and Printing.

PAYNE, George. He and his three sons made counterfeit, lithographed Confederate $100, 7.30% interest-bearing treasury notes. At least 1 million notes were placed into circulation.

PAYNE, George Alton. *LtEng.* b. Washington, DC 6 Nov. 1904. He was educated in Washington including art studies at the Corcoran Gallery School of Art. He began his government career as a messenger for the Department of Labor on 5 Sept. 1918. After working in four other agencies, including the Geodetic Survey as an engraver, he began his apprenticeship at the Bureau of Engraving and Printing on 1 May 1926; Payne was named an engraver on 1 July 1926. (See U.S. postage stamps after this date.) He retired on 30 Dec. 1965.

PEASE, Joseph Ives. *PEng & PtEng.* b. Norfolk, VA 9 Aug. 1809, d. Salisbury, CT 2 July 1883. In his youth he demonstrated talent as an inventor. After serving his apprenticeship with Oliver Pelton in Hartford, both went to Boston ca. 1830. Soon thereafter he moved to NYC to study drawing at the National Academy of Design. In 1835 Pease went to Philadelphia to engrave portraits for the *National Portrait Gallery*. He joined ABNCo in 1858 and might have engraved *The Battle of Lexington* used on the $20, NBN H728-772, and the NGBN H799-807. The *Seal* on the Newfoundland stamp, A10, and the *Princess of Wales*, Canada $20, PS1290 are credited to him.

Bank Notes & Bond

Autumn: Massosoit Bank, Fall River, MA $50; Catskill Bank, NY $5; Mechanics Bank, Phila., PA $1.
Female Head with Grape Garland, Peru 1 sol, PS382.
Female Head with Flower Garland, Peru 1 sol, PS382.
Isabella, Mercantile Bank, Hartford, CT $5.
Mechanic (art by F.W. Edmonds), McKean County Bank, Smethport, PA $5.
Philosophy: Boston & Albany RR; Commercial Cable Co..; St. Louis Rwy Co.
Star of the Empire: Millers & Miners Bank, W. Middlesex, PA $1; SC revenue bond scrip, 1872.
Reaper, The, Chile 20 pesos, PS220.
Zouave, The (art by F.O.C. Darley), $10,000, HX134E.

PECKHAM, Thomas E. *LtEng.*

PECKMORE, Harry L. *PtEng & LtEng.* b. ca. 1890, d. 1975. His apprenticeship began at age 12 under J. McCaskie. After working for Central BNCo and Hamilton BNCo Peckmore established his own business in Hillside, NJ. For HBNCo he engraved the Bethlehem Steel trade mark. In addition to designing, etching and engraving postage stamps, this artist also is credited with business cards, illustrations and greeting cards. Copperplate etchings by Peckmore, based on U.S. stamps, were sold by Associated Etchers in 1937. Liberian stamps, Scott Nos.: 329, 332-337, 341-346, C61 & C62, C66, C68 & C69 were designed and engraved by him. The *Winter Scene* (eng. K. Guy) on U.S. Postal Panels (1978 & 1979) is Peckmore's design.

PENEAU, Alexander. *ScrpEng.* b. NH 23 Apr. 1887. He began his apprenticeship at the Bureau of Engraving and Printing on 6 Aug. 1924; he was named an engraver on 1 September 1940. Peneau retired on 30 April 1957.

PELTON, Oliver. *PtEng.* b. Portland, CT 31 Aug. 1798, d. E. Hartford, CT 15 Aug. 1882. He was first a pupil of, and then a partner with Abner Reed in Hartford. About 1828 he moved to Boston; in 1836 Pelton & Terry was formed and later merged with the New England BNCo. Pelton was the teacher of J.I. Pease.

PENDLETON, William S. *Eng & Lithographer.* b. NYC 27 Jan. 1795, d. Staten Island, NY 22 Jan. 1879. By 1825 he was working with Abel Bowen in Boston. The following years was spent with his brother, John B. Pendleton. From 1833-1837 he was with the New England BNCo. Some time later he moved to Philadelphia.

PENTLAND, R. *Trans.* He was employed at the Bureau of Engraving and Printing ca. 1900.

PERINO, Ernest J. *LtEng.* He was employed at American BNCo from 22 July 1927 until 21 May 1931.

PERRINE, George E. *PtEng.* b. Orange, NJ 9 July 1837, d. Brooklyn, NY 3 Feb. 1885. He studied engraving with Thomas Doney in 1852 and with W.W. Rice in 1856 and 1857. He was engraving at the National BNCo ca. 1859, but left the following year to engrave independently. By 1871 he had formed the partnership of Perrine & Moore.

PERKINS, Abraham. *Eng.* b. Newburyport, MA 4 May 1768, d. Newburyport, MA 2 April 1839. He was a partner in the New England BNCo. Perkins was the brother of Jacob and father of Nathaniel Perkins.

PERKINS, Henry. *Eng.* b. Salem, MA 15 May 1803. Perkins was a member of Danforth, Wright & Co. from 1855-1857, a member of Danforth, Perkins & Co. from 1858 to 1859, and treasurer of American BNCo in 1860.

PERKINS, Jacob. *Inv & Eng.* b. Newburyport, MA 9 July 1766, d. London, England 30 July 1849. In 1778 he was apprenticed to Edward Davis, a gold and silversmith and maker of watches and clocks. Davis died after three years and Perkins was put in charge of the firm. By 1795 Perkins was well-known in New England as an inventor and engraver. His inventions included a method of hardening steel plates, at a time when plates were made of copper; a transfer press; a siderographic process; he was the first to use a roller to apply ink to bank note plates. There are at least six patents in his name. Perkins relied almost entirely on machine-made bank note plates; they had a minimum of artistic, hand-engraved portions.

His reputation with Murray, Draper, (1816-1818) prompted the British to ask the firm to come to England to do work for the Bank of England. After this plan failed, all but Perkins returned to Philadelphia. Perkins obtained a contract to produce Bank of Ireland notes and formed the partnership of Perkins Fairman & (Charles) Heath (PBH). In 1820, it was necessary for this successful firm to move to larger quarters at 69 Fleet Street. In addition to other work they prepared notes for English, provincial banks. The succeeding firm, Perkins, Bacon & Co. (PB) later became Perkins, Bacon & Petch (PBP). By using Perkins' "circular matrix transfer press," the first adhesive, postage stamp, the Penny Black was printed in England on 6 May 1840. Soon thereafter the two Penny Blue was ready (Weaver, 175). The entire bank note world owes much to the genius of this man. The U.S. Patent Office Report of 1849 devoted three pages to the inventions of Jacob Perkins. He was a cousin, twice removed, of Charles Toppan.

Foreign Bank Notes

Argentina
(PB): PS161-166; PS429-435 (printed in Buenos Aires).
(PBP): PS379-383; PS392-394, PS396, PS397-399 (printed in Buenos Aires).
Brazil
(PBH), PS206-224.

PERKINS, Joseph. *ScrpEng.* b. Unity, NH 19 Aug. 1788, d. NYC 27 Apr. 1842. He graduated from Williams College in 1814. In 1818 he moved to Philadelphia to learn engraving. By 1825 Perkins was in New York City with Durand, Perkins & Co. He was listed at 4 John St., NYC from 1842 to 1844. His widow probably headed the business for two years after his death.

PERRY, John F. *PlPr.* b. Maryland 1888, d. 27 Aug. 1915. He joined the BEP as a plate printer on 25 April 1905. It is possible that Perry was also a transferer.

PERRY, John P. *Trans.* b. Brooklyn, NY 22 Sept. 1871. After engraving for Franklin BNCo he joined the Bureau of Engraving and Printing as a transferer on 22 June 1898. Perry eventually became Assistant to the Director. He retired on 14 Feb. 1924.

PETERS, Alfred J. *LtEng.* He was employed at Quayle & Son ca. 1915.

PHELPS, James V. *LtEng.*

PHILLABROWNE, (Thomas). *PEng & PtEng.* b. London. He came to the U.S. ca. 1850. The portrait of *Benjamin Franklin* on the Gold & Stock Telegraph Co. stock certificate, the Bank of Chambersburg, PA $1, the Petroleum Bank of Titusville, PA $5, and other notes, is credited to this engraver, who was employed at American BNCo in the 1860s.

PHILLIPS, Eleazar. *Pr.* b. Boston. d. Charlestown, MA. His apprenticeship was under Thomas Fleet in Boston. Phillips was in business for himself for a short time (1730-1731), as printer for the colony of Massachusetts.

PHILLIPS, William G. *PEng & PtEng.* d. ca. 1906. He came to the Bureau of Engraving and Printing ca. 1890 and was there as late as 1894. Mr. Phillips engraved the $10 TN (back), H612-614, portions of the $100 SC, H1220 and the portrait of *William Windom* on the $2 SC, H183 & H184.

PICKERT, August. *PEng.* d. 21 July 1945. He was employed at American BNCo on 10 Aug. 1914 and retired ca. 4 April 1941.

PICKETT, _____. He was Chief of Engraving at the Hamilton BNCo in 1913.

PINCHIN, A. *Trans.* He was employed at American BNCo in the early 1860s.

PITCHER, E. *Des.* He was employed at the National BNCo. He is the probable designer of the following U.S. postage stamps: 10¢ & 24¢ (1851); 1¢, 6¢, 15¢, 24¢ & 30¢ (1869).

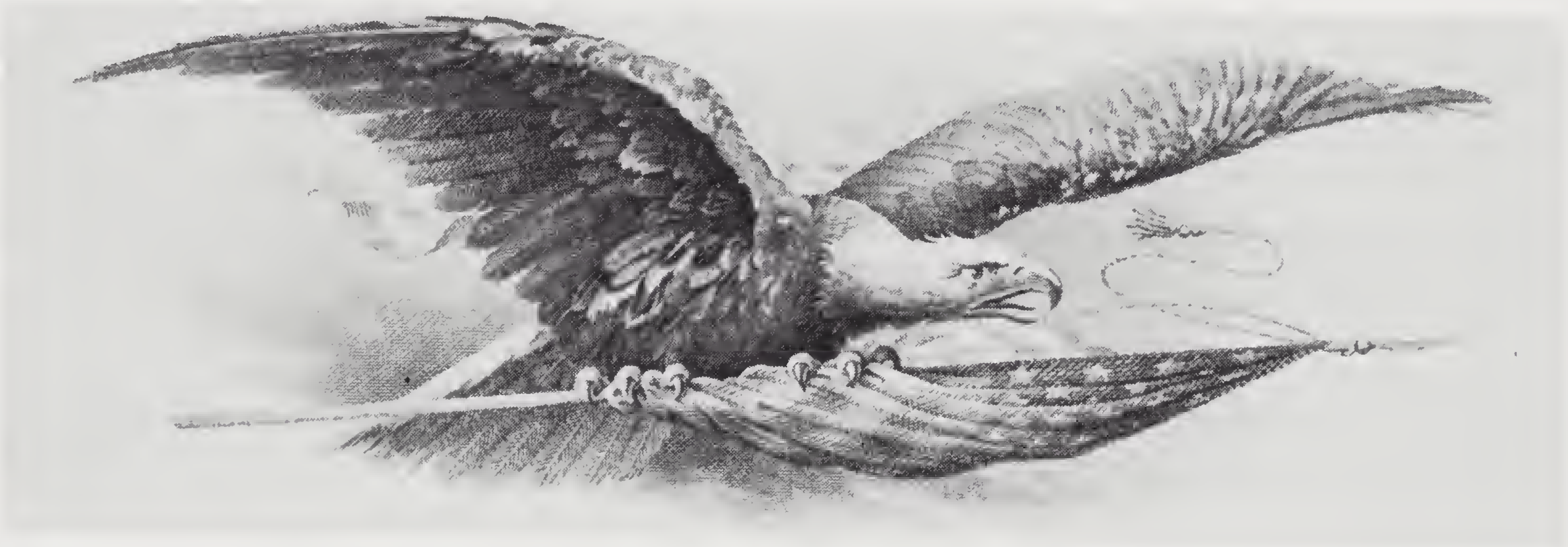
PITTSBURGH BANK NOTE CO. This company was purchased by United States BNCorp. The purchase date is unknown.

PLOWMAN, R. *Trans.* He was employed at Hamilton BNCo and moved to American BNCo from 26 Nov. 1917 to 30 Jan. 1931. In 1937 he was at Northern BNCo.

PONICKAU, Robert. *PEng & PtEng.* b. Germany 28 Aug. 1846, d. Washington, DC 3 March 1920. Upon arrival in the U.S. Ponickau settled in Hudson County, NJ. He joined the BEP on 16 Oct. 1893. In addition to his bank note and stamp engraving he engraved a number of eagle and ship vignettes that appeared on seals, and certificates.

Miscellaneous

Eagle, $1,000 U.S. cp. bd. (1914).
Eagle: (eng. with M. W. Baldwin) eight U.S. Naval Commissions; three U.S. Naval certificates; Honorable Discharge, U.S. Naval Reserve Force certificate; and Bureau of Navigation Commendation.
Eagle and Shield, World's Columbian Exposition Diploma (1893).



Eagle with Flag, $1 FRBN (back), H68.

Great Seal of the U.S.: $5 SC (back), H372; $20 GC (back), H834-842.
National Bureau of Standards Seal (eng. with R.A. Warren).
St. Louis (vessel), use uncertain (1895).
Shenandoah, The (eng. with E.M. Hall), Inspector's license for Masters of Sailing Vessels over 700 Gross Tons.
The Maine, Proprietary Revenue stamp (1898).
U.S. Army Medical Dept. Seal (eng. with E.M. Weeks).

PONICKAU, William. *Eng.* b. Germany, d. 1911. He joined the Bureau of Engraving and Printing on 12 Jan. 1894. He left to engrave for the National BNCo but later went to London to join Waterlow & Sons.

PORTER, Atwood. *Des & LtEng.* He succeeded Joseph Claxton as designer at the Continental BNCo. In 1878, at consolidation, he remained to engrave for American BNCo. Mr. Porter was there until about 1888.

PORTER, Esther F. *Des.* This artist joined the Bureau of Engraving and Printing on 25 Sept. 1972. She retired from the BEP on 24 Dec. 1987. Porter is the wife of engraver Joseph Creamer.

POVEROMO, Joseph T. *PEng & PtEng.* b. Brooklyn, NY 29 Feb. 1920, d. 20 Feb. 1964. He graduated at 16 from James Monroe High School in the Bronx, NY. After flying transports and gliders for the U.S. Air Force he joined American BNCo. During his 14 years at ABNCo he studied painting and sculpture at night at the Art Students' League. The *Arms of Norway* on the Kingdom of Norway cp. bd. (1958) and the portrait of *Calvin Coolidge* in the *Story of American Bank Note Company* are examples of Poveromo's work.

POWER, Nicholas. This printer from Poughkeepsie printed New York notes dated 11 January 1791; and small change notes for the City of Poughkeepsie dated 19 March 1791 and William Radcliff & Co. dated 2 May 1791.

POWERS, William T. *Trans.* He was employed at Quayle & Son and the Bureau of Engraving and Printing.

PRENDER, John. *Sid.* b. Washington, DC 1865. He joined the Bureau of Engraving and Printing as an apprentice helper on 1 Oct. 1881. Before his retirement on 30 June 1932 he held the following positions: apprentice carpenter (28 Sept. 1882); transferer (1 July 1883); plate cleaner (12 Sept. 1890); transferer (17 July 1895); and siderographer (1 July 1922). Prender served as Notary Public at the BEP.

PRESTON, T.G. *Eng.* He was employed at Rawdon, Wright & Hatch ca. 1820.

PRUD'HOMME, John Francis Eugene. *PEng & PtEng.* b. Island of St. Thomas 4 October 1800, d. Georgetown, DC 22 June 1892. He came to NYC ca. 1809 and served his apprenticeship under Thomas Gimbrede, his brother-in-law, ca. 1814. Prud'homme was engraving independently in 1821 and was very much in demand as an illustrator. In 1831 he engraved portraits for the *National Portrait Gallery*. He was an Academician of the National Academy of Design and was curator from 1845-1853. Prud'Homme went to the Bureau of Engraving and Printing in 1869 and remained there until his death.

Stamps

New Brunswick
He Locomotive, A3.
Nova Scotia
Victoria, A5 (8½ & 10¢, retouched; C. Burt eng.).

PURCELL, Edward. *Des & Eng.* b. ca. 1810, d. ca. 1860. He was a partner in Jocelyn & Purcell; their address, 29 Wall St., NYC, was the same as Toppan, Carpenter & Co.

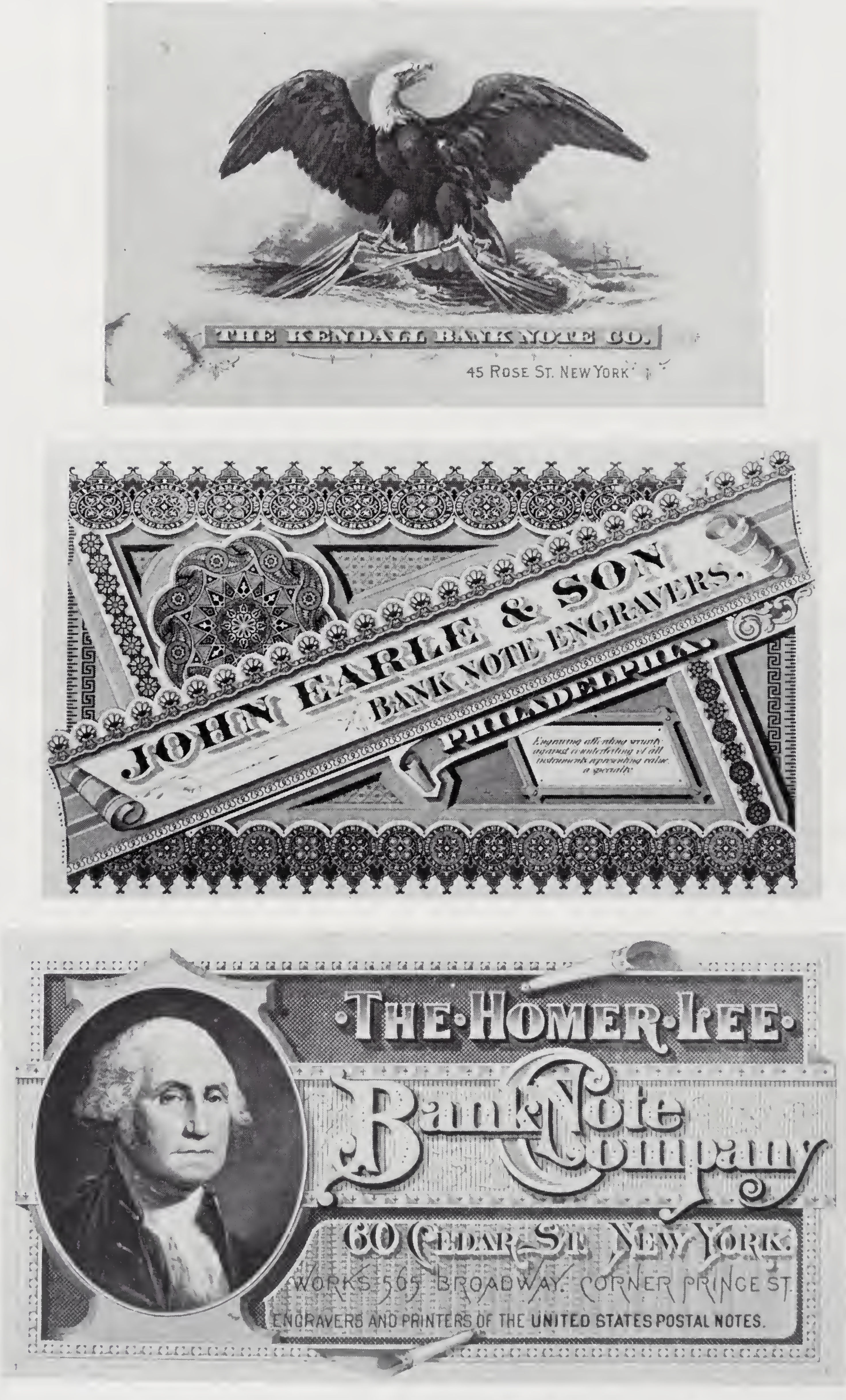
PURDOCK, Rudolph. *Des.* He was employed at American BNCo in the 1950s.

PURGASON, Paul E. *Des & Eng.* b. Washington, DC 7 Mar. 1948. He studied design at Columbia Tech (1968-71) and art at American U. (1971-74). From 1971 to 1978 Purgason was apprenticed as letter, script and sculptural engraver at the Bureau of Engraving and Printing. Since the latter date he has been working at the BEP as a sculptural engraver. Mr. Purgason is credited with the following seals: Dept. of Energy; FDIC; GSA; (new) BEP; and (new) Dept. of State.

PYNCHON, Alfred. *Eng.* He was employed at the Philadelphia office of American BNCo in 1862.

Q

QUAYLE & SON. This company, headed by Oliver Quayle, originated in Albany, NY; by 1934 their office was in New York City. Quayle made a strong bid to prepare silver certificates for Cuba in 1934; the Bureau of Engraving and Printing received the contract. Some 1930s, partially-engraved, depression scrip, and, the 1932 and 1936 Democratic National Convention tickets were prepared by this company. Quayle & Son was purchased by United States BNCorp. (See NorthBNCo.)



THE KENDALL BANK NOTE CO.

45 ROSE ST. NEW YORK

JOHN EARLE & SON

BANK NOTE ENGRAVERS,

PHILADELPHIA.

Engraving affording security against counterfeiting of all instruments representing value a specialty.

·THE·HOMER·LEE·

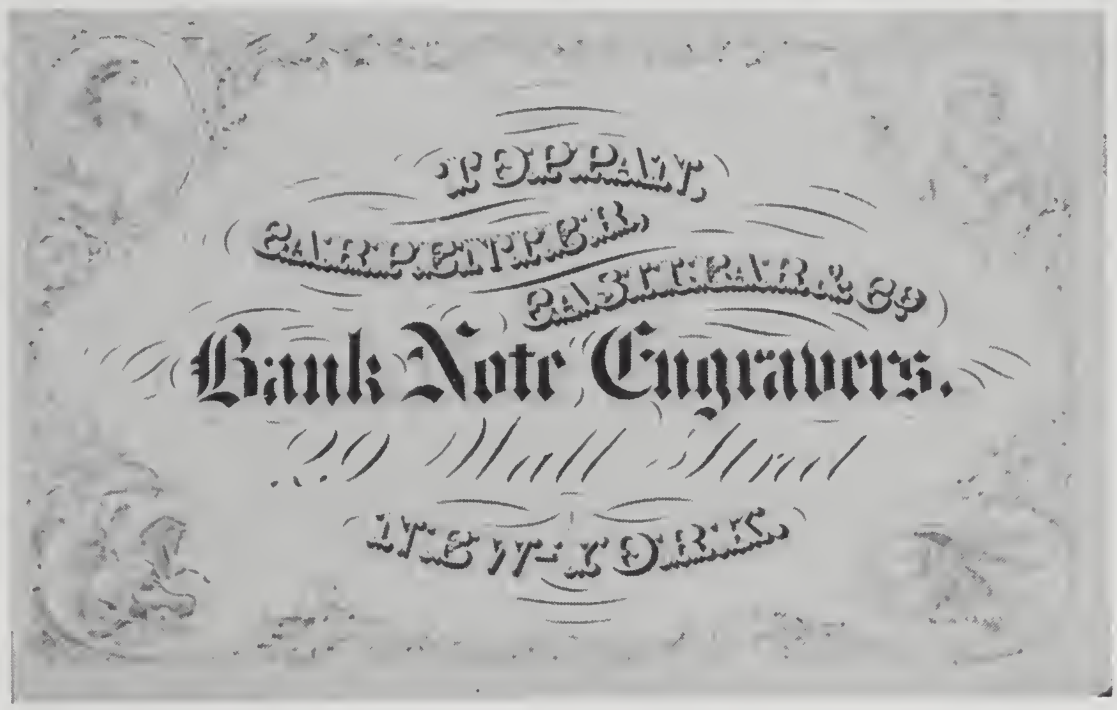
Bank Note Company

60 CEDAR ST. NEW YORK.

WORKS 505 BROADWAY, CORNER PRINCE ST.

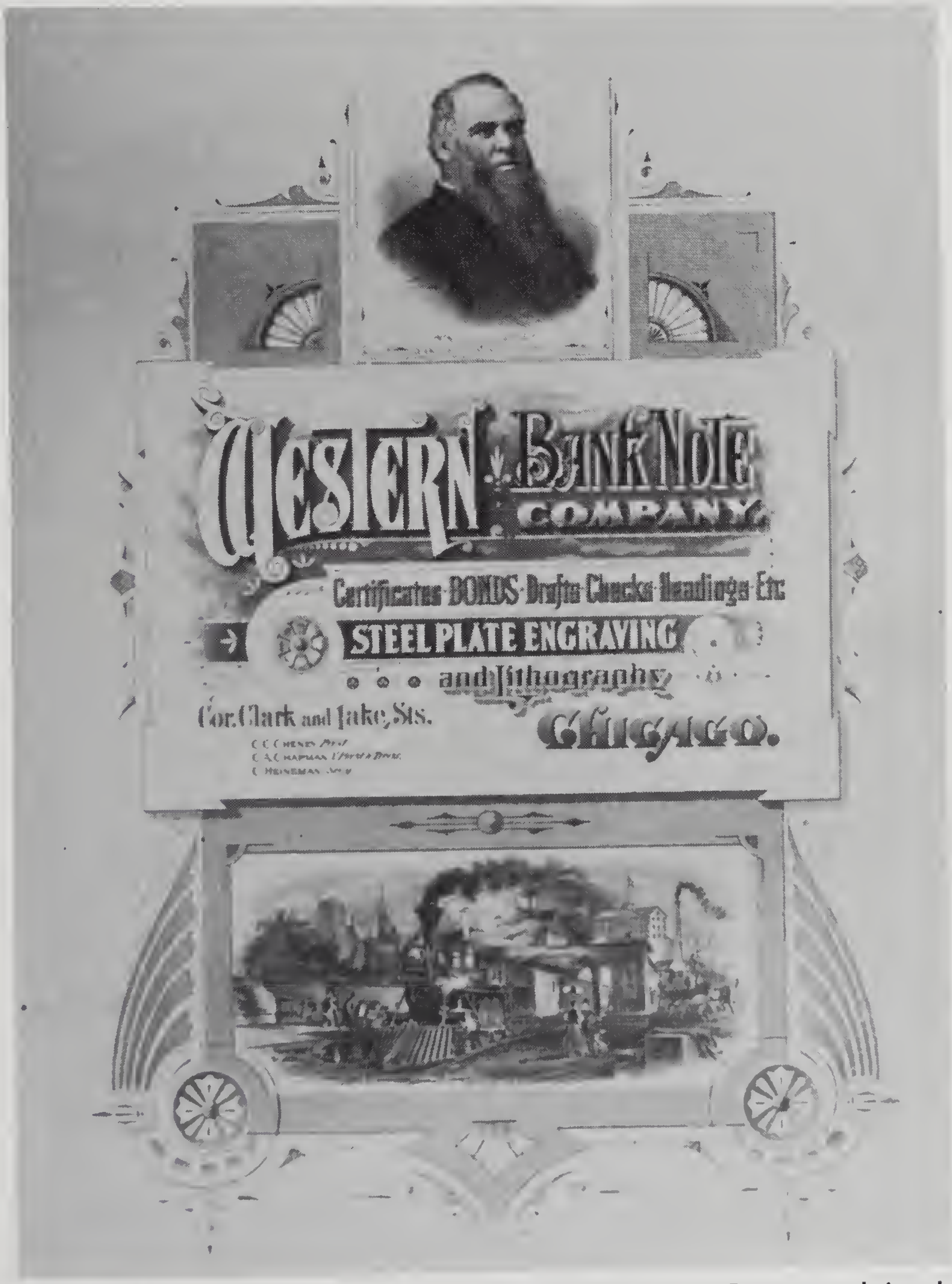
ENGRAVERS AND PRINTERS OF THE UNITED STATES POSTAL NOTES.

Advertising cards for three bank note engraving companies.



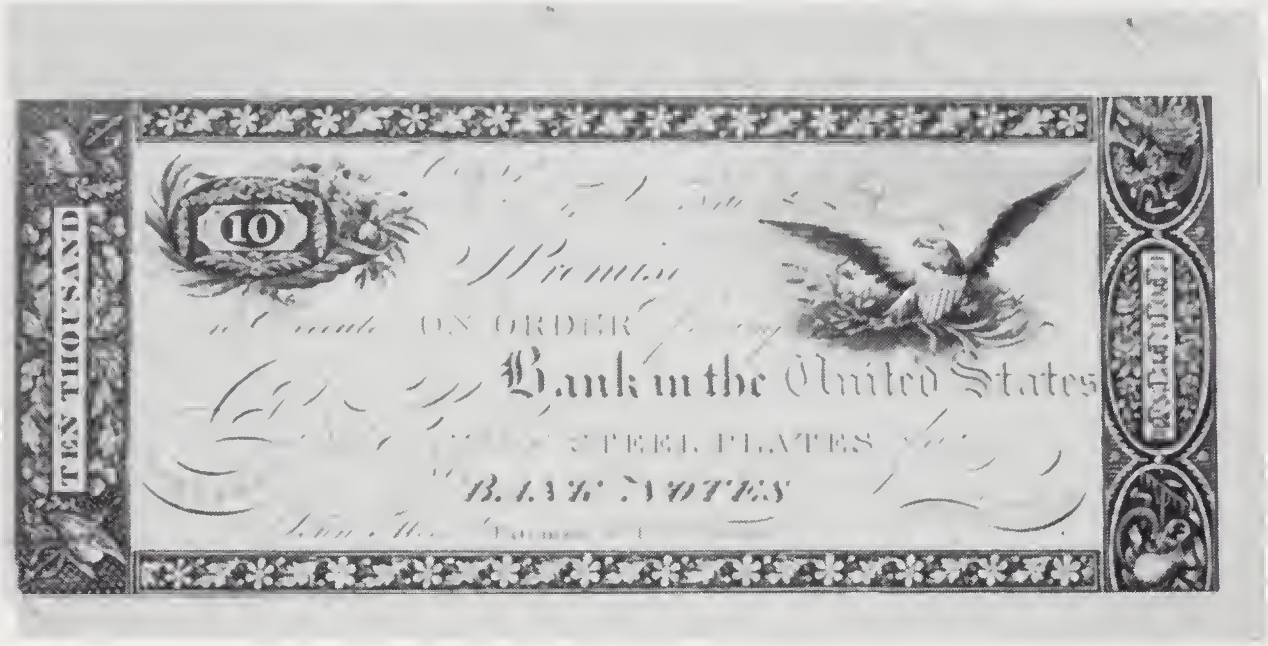
TOPPAN,
CARPENTER,
CASILEAR & Co
Bank Note Engravers.
29 Wall Street
NEW-YORK.

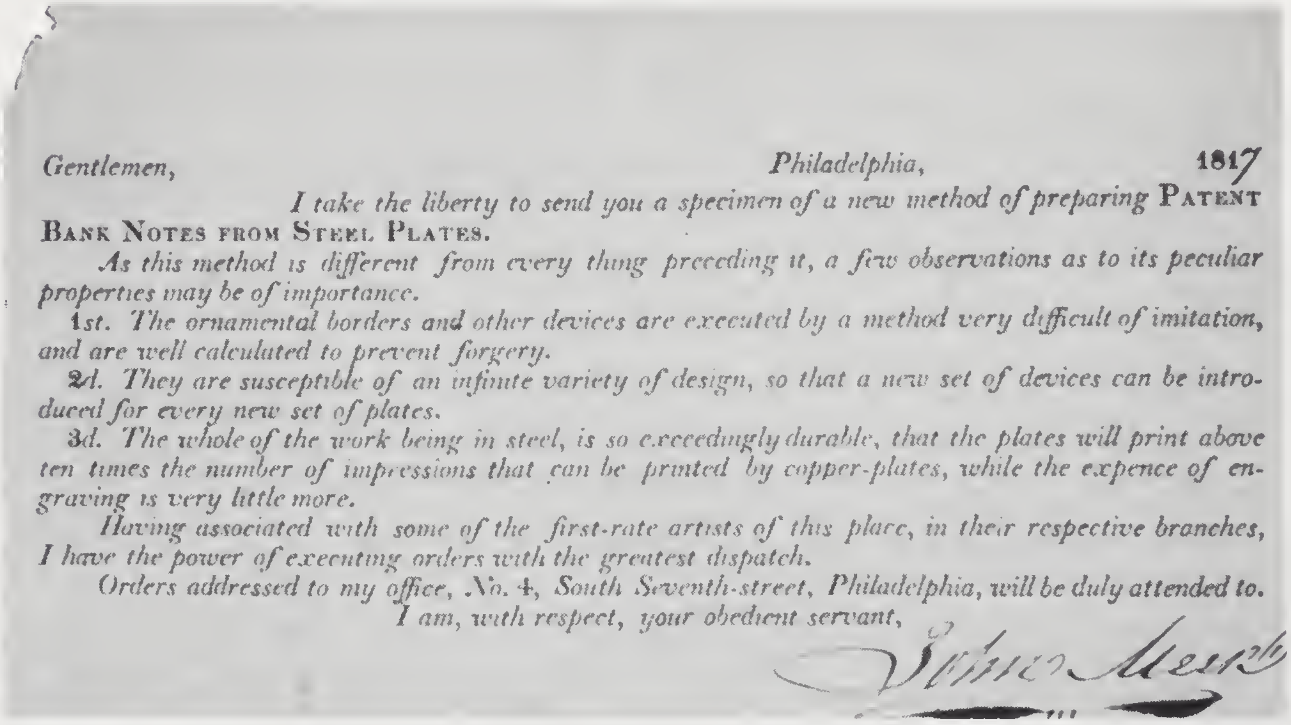
This advertising card was used when this company was at 29 Wall Street.



WESTERN BANK NOTE COMPANY.
Certificates · BONDS · Drafts · Checks · Headings · Etc
STEEL PLATE ENGRAVING
and Lithography
Cor. Clark and Lake, Sts.
CHICAGO.

This Western Bank Note Co. ad includes a portrait of Michigan Governor John J. Bagley.





Gentlemen, Philadelphia, 1817

I take the liberty to send you a specimen of a new method of preparing **Patent Bank Notes from Steel Plates.**

As this method is different from every thing preceding it, a few observations as to its peculiar properties may be of importance.

1st. The ornamental borders and other devices are executed by a method very difficult of imitation, and are well calculated to prevent forgery.

2d. They are susceptible of an infinite variety of design, so that a new set of devices can be introduced for every new set of plates.

3d. The whole of the work being in steel, is so exceedingly durable, that the plates will print above ten times the number of impressions that can be printed by copper-plates, while the expence of engraving is very little more.

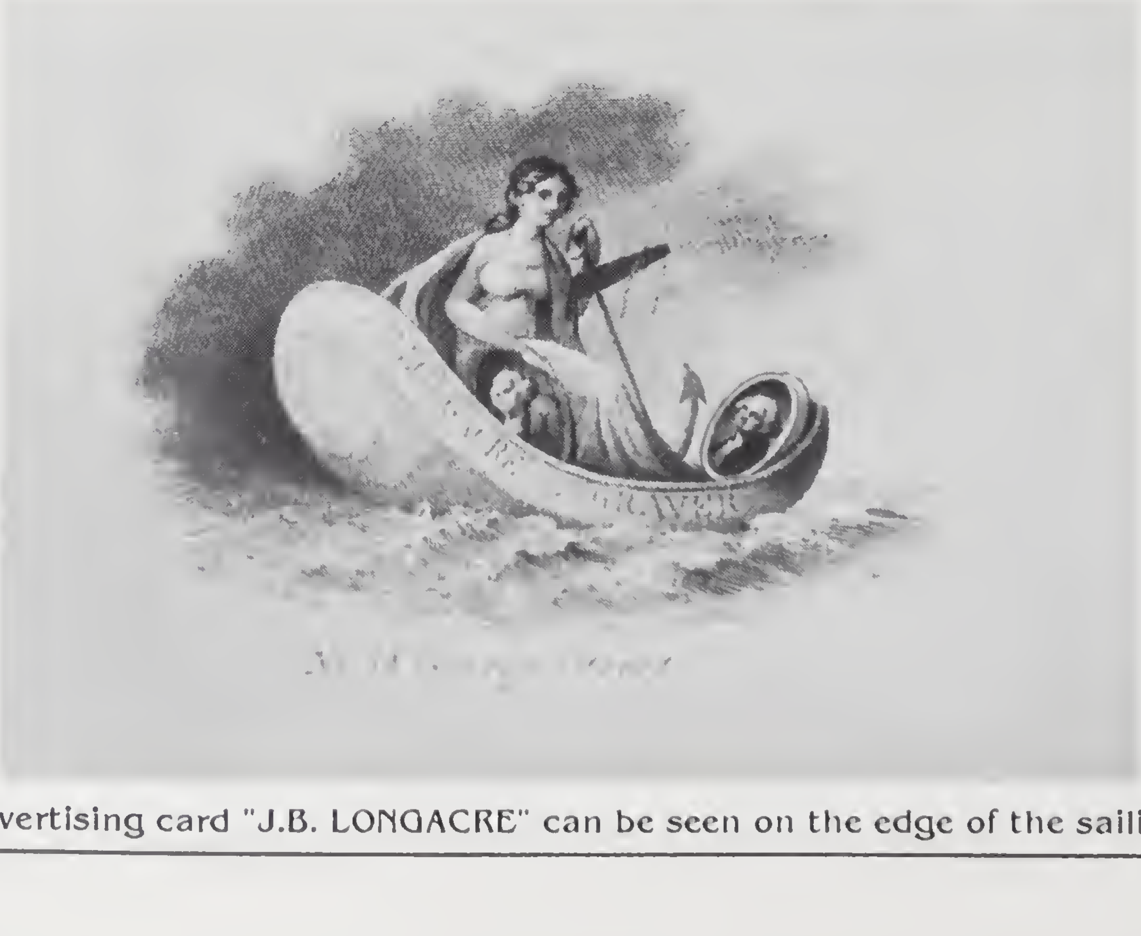
Having associated with some of the first-rate artists of this place, in their respective branches, I have the power of executing orders with the greatest dispatch.

Orders addressed to my office, No. 4, South Seventh-street, Philadelphia, will be duly attended to.

I am, with respect, your obedient servant,

John Meer

This John Meer advertising note greatly resembles the treasury notes issued in 1815. The name of the engraver, John Vallance, is seen on the face of this note. The back of the note lists the features this company offers to potential clients.



On this advertising card "J.B. LONGACRE" can be seen on the edge of the sailing vessel.

R

RAWDON, Freeman. *PtEng.* b. Tolland, CT 1801, d. NYC 21 Sept. 1859. His brother, Ralph, was his engraving teacher. He was with Rawdon, Wright & Hatch in 1833, and remained with successors Rawdon, Wright, Hatch & Edson, and, Rawdon, Wright, Hatch & Smillie. Rawdon was one of original trustees of the new American BNCo in 1858. Eventually he left the engraving field to pursue coal mining.

United States Bonds

Wealth: $50, $100, $500 & $1,000 HX114A, B, C & D; $50 & $100, HX126A & B.

United States Obsolete Bank Notes

Mercury with Commerce (art by H. Inman): Bank of Darien GA $5; Clinton Bank, Columbus, OH $2; People's Bank, Bangor, ME $3; Seventh Ward Bank, NYC $1 & $2.

RAWDON, Ralph. *Des & Eng.* b. Tolland, CT ca. 1790, d. ca. 1878. He served his apprenticeship under Thomas Kensett. After three years of engraving in Cheshire, CT Rawdon moved to Albany, NY to work with Asaph Willard. From 1822 to 1826 he was affiliated with Rawdon, Balch & Co. and remained with Rawdon, Clark & Co. and the succeeding firms until 1834. Following a hiatus from the engraving world Rawdon rejoined his brother at Rawdon, Wright, Hatch & Edson in 1841. Rawdon was with the firm in 1858, but not when ABNCo was formed.

RAWLINSON, Elaine. *Art & Des.* b. NYC Jan. 1911. This artist studied at the National Academy of Design and the Pennsylvania Academy of Fine Arts. She is a member of the National Arts Club and the National Association of Women Artists. Ms Rawlinson designed the U.S. 1¢, regular issue, Presidential stamp of 1938.

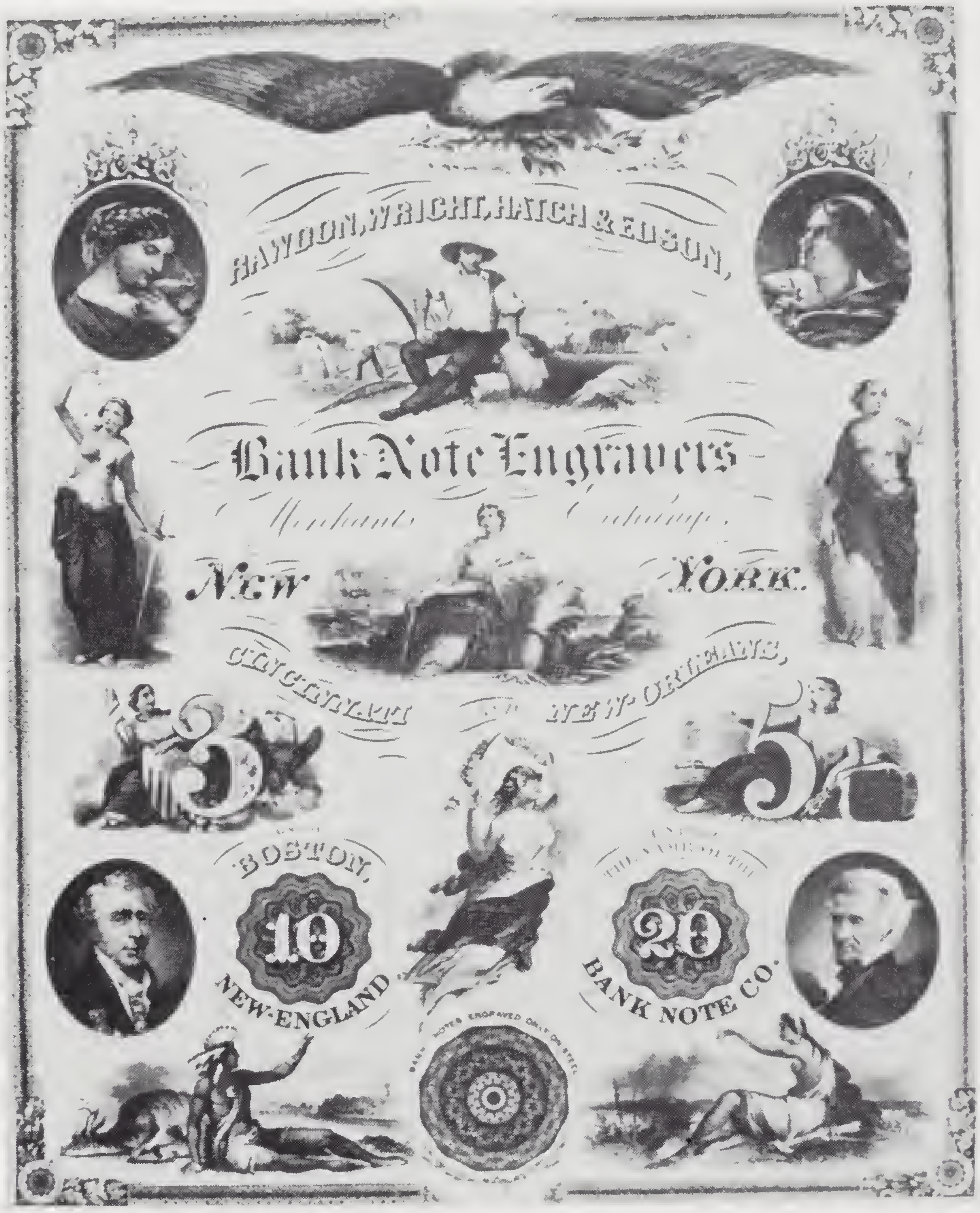
REDDY, James F. *ScrpEng.* He was employed at the New York BNCo ca. 1935.

REECE, Arnold. During his time at American BNCo (1905-1958) he was Head of the Design Department and later Manager of the Engraving Division.

REECE, Vincent. *ScrpEng.* He was employed at the Security BNCo ca. 1930-1950.

REED, Abner. *Eng.* b. E. Windsor, CT 1771, d. Toledo, OH 1866. Initial engraving instruction came from silversmiths and jewelers, Isaac and George Dutton in Albany, NY. Reed's career began by engraving name plates for saddles. He is reported to have been in New York City in 1797; he returned to E. Windsor in 1798. Reed could be the engraver of the first plates for the Hartford Bank in 1792; he moved to that city in 1803. There, Reed was engaged in occupations that included everything from engraving maps and coffin plates to cutting type and seals and making cheese presses. He was a partner in Reed & Stiles in 1821; this imprint appears on the Windham County Bank, Brooklyn, CT. The name Reed appears on the following RI bank notes: the Cranston Bank, $1, $3 & $5, the Bank of Kent $1½, the Landholders' Bank, S. Kingston $2, and the Pawtuxet Bank. The Eagle Bank of New Haven, the Hartford Bank, the Middletown Bank, the New London Bank, and the Phoenix Bank in Litchfield, all in CT bear the Reed imprint. Bank notes dated 181_ issued by the MA Bank bear the name of A. Reed. He was one of the earliest bank note engravers in the U.S.

REED, Elliot. *Eng.* He engraved for Rawdon, Wright & Hatch in NYC.



An advertising sheet for Rawdon, Wright, Hatch & Edson, and subsidiary companies.

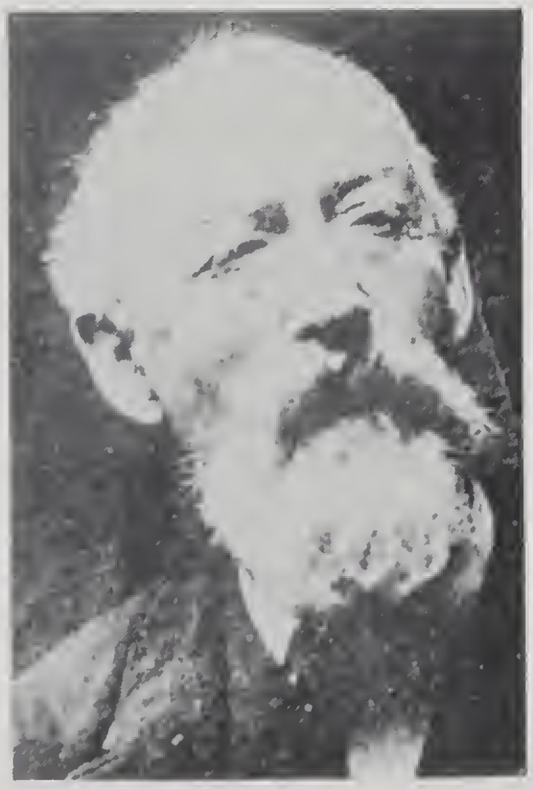
Unidentified members of the Republic Bank Note Co. about 1906.

Charles S. Reinhart

Paul Revere, eng. by Robert Savage.

George U. Rose, Jr.

Douglas S. Ronaldson


Christian Rost

Judah T. Robertson

REED, Robert. *ScrpEng.* He was employed at Security BNCo from ca. 1930 to 1950.

REID, George. Formerly with the Canadian BNCo he moved to the Transfer Division of American BNCo on 7 Sept. 1923.

REID, S.M. He was employed in the Transfer Division of American BNCo in 1911.

REINHART, John. *LtEng.* b. 1872. He was employed at the Homer Lee BNCo in 1894.

REINHARDT, Charles Stanley. *Art & Des.* b. Pittsburgh, PA 1844, d. NYC 1896. He studied art in Paris and Munich. in 1884 Reinhardt became a member of the prestigious Salmagundi Club. He was an associate at the National Academy of Design and a member of the American Watercolor Society. He received medals at the Paris Exposition of 1889 and the PA Academy of Fine Arts in 1888. Reinhardt submitted designs for a $20 and three unidentified denominations for the U.S. silver certificates of 1896; these *essais* are unknown.

REPTON, Bernard. On 22 April 1774 he was convicted "for Counterfeiting the Bills of Credit of this [PA] Province" and was sentenced to be executed on 30 April 1774 (Gillingham).

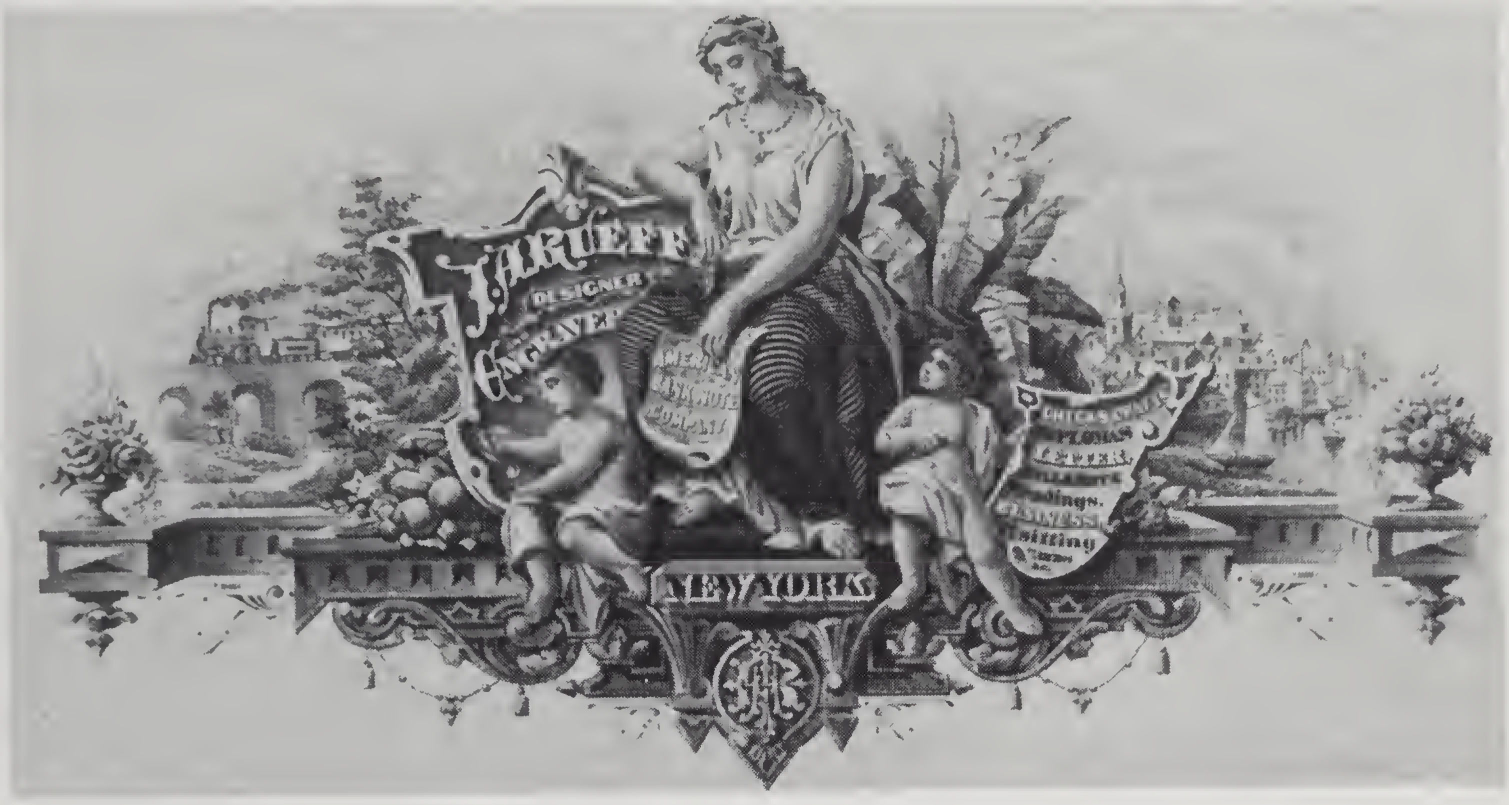
REPUBLIC BANK NOTE CO. When the Western BN&ECo was taken over by American BNCo in 1904, a group of employees, among them, Albert A. Boerlin, George Verbeck, Jr. and Henry Schneider, but headed by George W. Goldsworthy, formed the Republic BNCo in Pittsburgh, PA in 1905. The company began as a small letterpress and lithography firm, but within a year was producing steel plate securities.

RepBNCo printed scrip during the Great Depression, engraved plates for Cuban and other Latin American stamps and other miscellaneous documents. During the late 1930s and early 1940s, under subcontract from SecBNCo, RepBNCo produced Chinese bank notes (P290, P319, P336, P341, P349, P355, P360, P363, P398, P405, & P425). Due to the bulk of Chinese bank note printing by RepBNCo, Goldsworthy decided to merge the company with SecBNCo in Philadelphia; the merger took place on 2 Nov. 1942. The translation of "Security" BNCo was more agreeable to the Chinese than was "Republic BNCo."

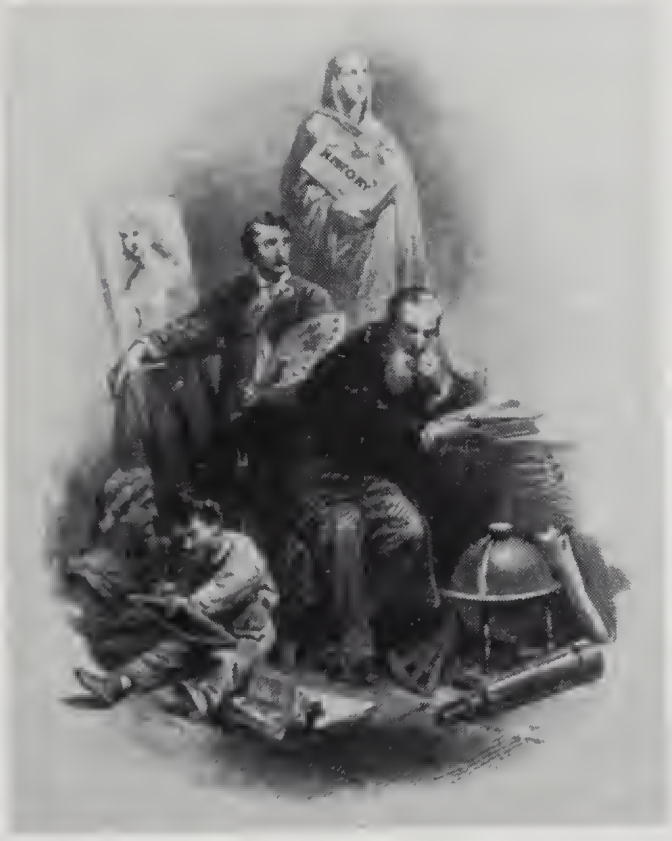
REVERE, Paul. *Eng.* b. Boston, MA 1 Jan. 1735, d. Boston 10 May 1818. His father was a French Huguenot from the isle of Guernsey, who came to Boston in 1716 and was indentured to John Coney, silversmith. After Coney's death in 1722, the elder Apollos Rivoire changed his name to Paul Revere, although there are isolated examples of the original spelling after this date.

The young Revere had many talents including bell caster and watercolorist; he became interested in copperplate engraving in 1764. As a member of the Sons of Liberty he wanted to enlist, but, he was needed as a printer of MA notes. Revere served as a messenger to carry dispatches to other colonies. After the Revolution he returned to silversmithing; he also owned a foundry and cast cannon and church bells. The Day Books of Revere give an accurate account of his prodigious work. He engraved and printed the following Massachusetts notes dated: 25 May 1775, 8 July 1775, 18 August 1775, 17 September 1776, 17 November 1776 and 16 October 1778. According to Dunlap, Revere also built the press to print these notes.

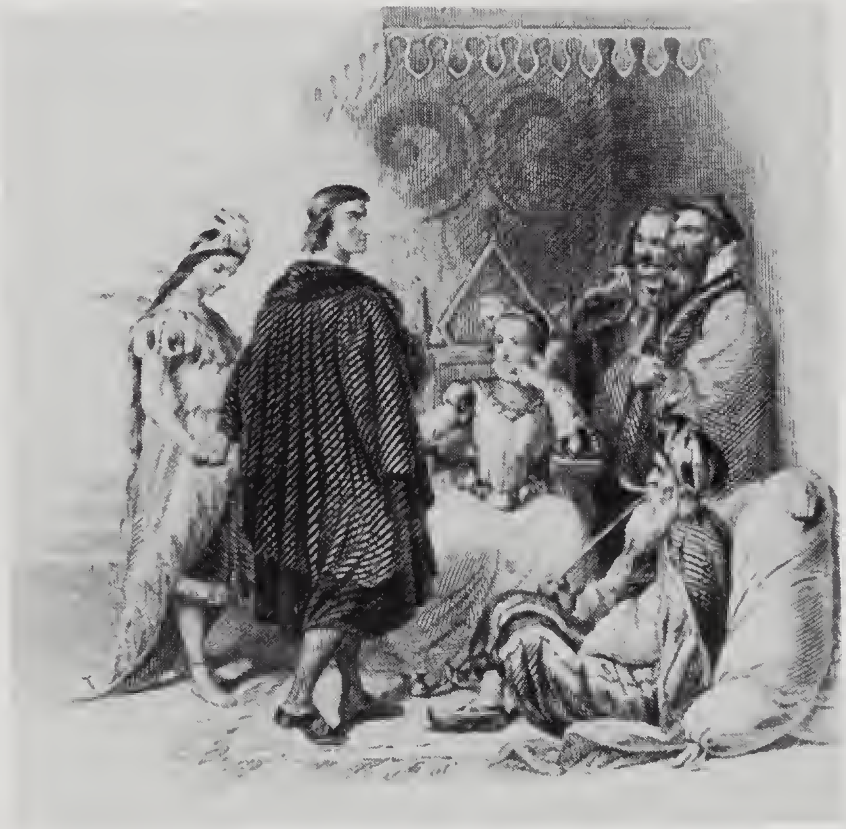
RICE, James R. *PEng & PtEng.* b. Syracuse, NY 1824, d. Philadelphia (?). His brother, W.W. Rice, was his engraving teacher. Rice went to Philadelphia in 1851. In that city, in 1876, he engraved portraits with J. Earle.



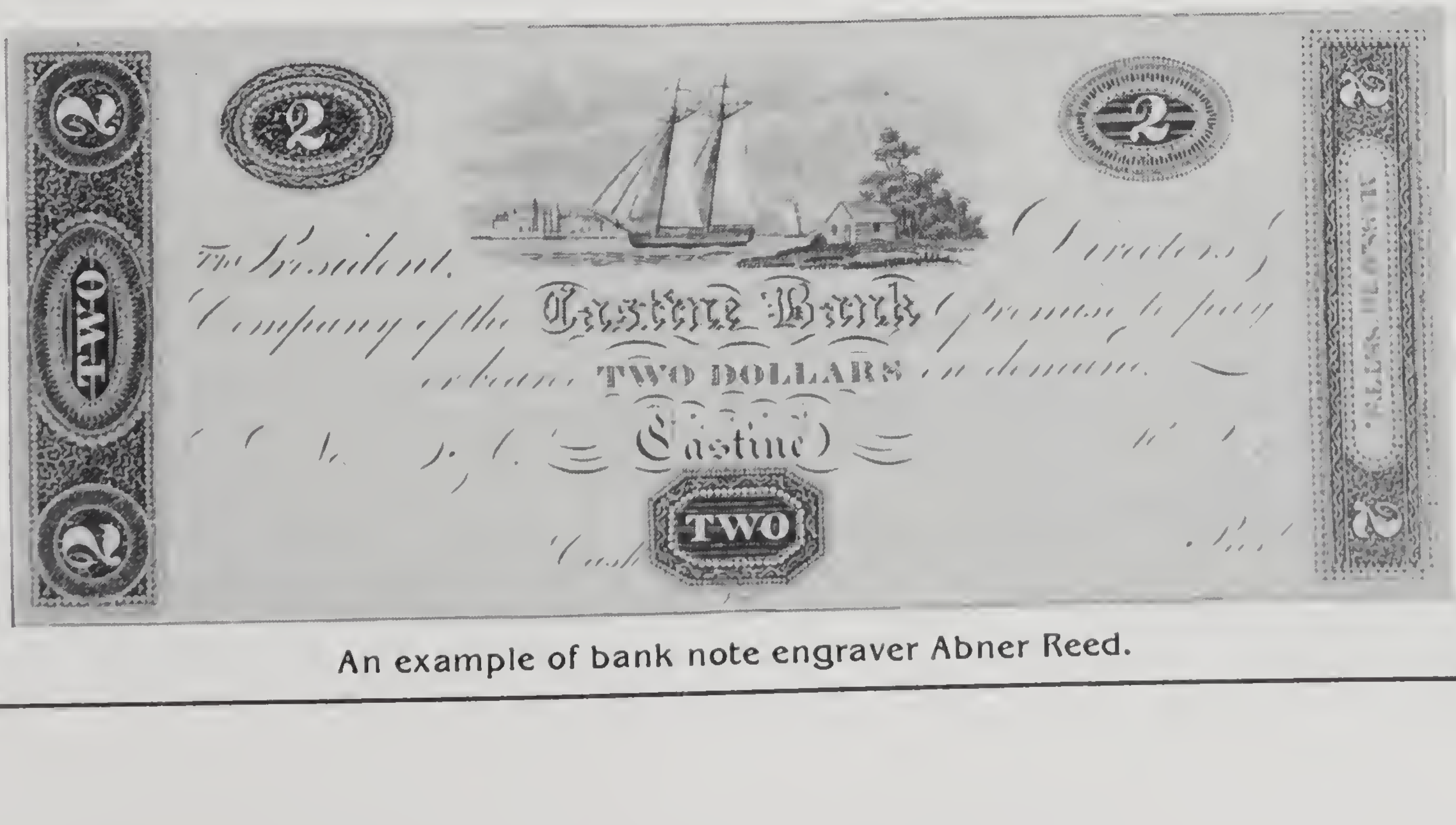
An advertising card for J.A. Rueff.



Arts & Science, eng. W.W. Rice, Mexico 1 peso, PS120.



Introduction of the Old World to the New, eng. W.W. Rice, USN $10, H466.



An example of bank note engraver Abner Reed.

RICE, W.W. *PEng & PtEng.* b. ca. 1820, d. ca. 1860. He came to NYC from Scotch Plains, NJ and engraved for Rawdon, Wright, Hatch & Co. in 1846. He was a partner with George E. Perrine from 1856-1858 and then worked independently until ca. 1860. In the employment records of 1860 and 1861 at American BNCo, "Does not work full time" appears next to his name.

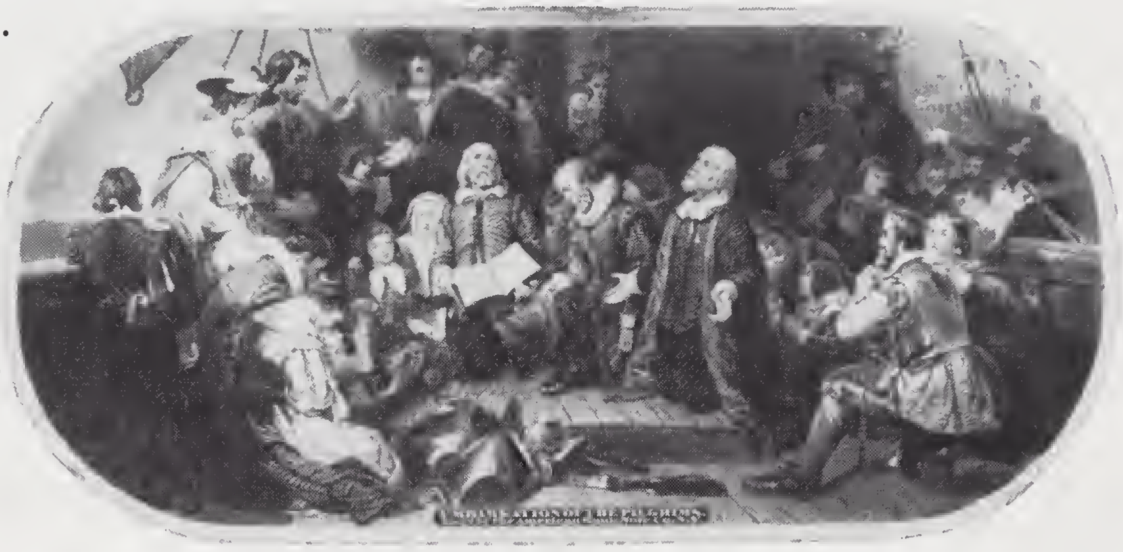
United States Federal Bank Notes

Arms of Maryland for NBN backs.

Embarkation of the Pilgrims, $50 NBN (back), H953-964.

Introduction of the Old World to the New, $10 USN, H466-468.

Loyalty, $50 IBTN, H945c.



United States Obsolete Bank Notes

Arms of South Carolina (art by T.A. Liebler), Bank of Newbury, SC $50.
Barn-Yard, The (art by F.W. Edmonds): Continental Bank, Boston, MA $1; Hampden Bank, North Castle, NY $2; Peoples Bank, Bowling Green, KY $5.
Blacksmith: Bank of Lawrence County, New Castle, PA $1; Oil City Bank, PA $50.
Female with Scythe, Sheep on Haystack, Southbridge Bank, MA $20.
Major Waldron's Terrible Fight (background by J.D. Smillie): Bank of the Republic, Boston, MA $1; Northern Bank, Providence, RI $10; The Holyoke Bank, Northampton, MA $10.
Mechanic: Bank of Granville, OH $2; Citizens Bank, Pittsburgh, PA $2.
News from Home (eng. with J.D. Smillie), Oil City Bank, PA $1.
Sea Side (art by C. Schussele), Continental Bank, Boston, MA $5.
Slemmer, Brig. Gen., Bank of Montgomery County, Norristown, PA $1.
The Tropics (art, H.W. Herrick): Planters Bank of TN $2; Union Bank of TN $1.

Foreign Bank Notes

Argentina
Alberdi, Dr. Don Juan Bautista, 10 pesos, PS829.
The Tropics, 20 pesos, PS680. (See H.W. Herrick, artist, for more examples.)
Brazil
South American Rams, 10 mil reis, PS681.
Ecuador
Sheep Shearing, 20 sucres, PS160.
Mexico
Agriculture (art by H.W. Herrick), 100 pesos, PS269.
Arts & Science (art by C. Schussele), 1 peso, PS120.
South American Rams, 50¢, PS152.
Switzerland
Justice (eng. with J. Smillie): 100 francs, PS538; 500 francs, PS539.

Miscellaneous

Continental (art by H.W. Herrick), Continental NB of Boston draft (1897).
Mechanics (art by H.W. Herrick), Chicago, Milwaukee & St. Paul Rwy (1879).
News from Home (eng. with J.D. Smillie), Argentina bond (1881).

RICHARDS, Theodore H. *Des & Mod.* b. ca. 1855. He was employed at American BNCo as early as the 1880s and as late as 1911.

RICHARDSON, Horace L. *LtEng.*

RICHARDSON, Joseph. He was confined in the Lancaster, PA jail, sometime after 4 October 1773, for counterfeiting and passing Pennsylvania bills of credit.

RICHARDSON, Thomas. *Eng.* b. 21 Sept. 1802, d. ca. 1881. He was engraving at the Philadelphia office of American BNCo in 1880.

RIDWAY, W. *Eng.* In 1854 he was employed by William Wellstood in New York City.

RIED, J. He was in the General Engraving Division of American BNCo in 1911.

RILEY, _____. *Eng.* He was employed at Rawdon, Wright & Hatch ca. 1812.

RILEY, Frank. *Art.* b.ca. 1908. In 1960 he submitted an unidentified painting that was accepted and engraved by American BNCo.

RIND, William. *Pr.* d. Williamsburg, VA 19 Aug. 1773. His apprenticeship was served under Jonas Green in Annapolis, MD with whom he was a partner, briefly. Rind opened a printing house in Williamsburg in 1766. He printed Virginia notes dated 7 Nov. 1769 and 11 July 1771.

RITTENHOUSE, David. *Astronomer, Inv & Eng.* b. Paper Mill Run, near Germantown, PA 8 Apr. 1732, d. Philadelphia 16 June 1796. This highly respected scientist was 60 when he accepted the appointment as the first Director of the U.S. Mint on 14 Apr. 1792. He engraved the ornaments on the NJ notes dated 25 Mar. 1776. His name can be found in the border of the £6 notes.

ROACH, James. *ScrpEng.* He was employed at E.A. Wright BNCo.

ROACH, William A. *Des.* b. Delaware 23 Jan. 1888. He joined the Bureau of Engraving and Printing as a temporary designer on 1 August 1938 and was named designer on 1 July 1939. The *Eagle* on the back of the $10 MPC, Series 692 is the creation of this artist.

ROALD, Curt. *Art & Des.* He was employed by Jeffries BNCo.

ROBERTS, Frank. *LtEng.* He was employed at American BNCo from 16 Feb. 1928 until 21 May 1931.

ROBERTS, Gilroy. *PEng.* b. Philadelphia, PA 11 Mar. 1905. He studied art at the Corcoran Gallery School of Art from 1929 to 1943. After one year (1936) at the U.S. Mint he moved to the BEP where he remained until 1944. "I thought it was tough making dies for coins," Roberts once remarked, "but that doesn't hold a candle to making a bank note die. That's really tough." In 1944 Roberts returned to the Mint and served as Chief Engraver from 1948 to 1964. After his retirement from the Mint he engraved numerous coins and medals for the Franklin Mint. In 1951 Mr. Roberts received an award for excellence in bas-relief from the National Sculptor Society. His most famous piece of medallic art is the U.S., Kennedy 50¢ piece.

Stamps
United States

A320 A330 A338 A348

U.S. Stock Transfer Stamps

Bigg, George M.
Corwin, Thomas.
Ewing, Thomas.
Hamilton, Alexander.
Meredith, William.

ROBERTSON, Judah Touro. *Inv.* b. Philadelphia, PA 7 Mar. 1841, d. NYC 5 Jan. 1900. He learned the bank note printing business from the bottom at the Continental BNCo after he purchased some stock in the company. Robertson joined the ContBNCo as secretary

In Jan. 1863, became vice-president and continued in that office when ABNCo consolidation took place. At least ten bank note-related patents are recorded in his name. In *The EPJ* (1964, 81, p. 24), the portion of his diary that covers the contract procurement for the first charter, national bank notes by the Continental BNCo is reprinted.

ROBINSON, William. *ScrpEng.* He was employed at American BNCo from 22 Feb. 1926 until 2 July 1931. On 12 July 1935 Robinson was rehired.

ROLLINS, Harry R. *PEng.* b. 7 July 1908. He joined the Bureau of Engraving and Printing as an apprentice engraver on 20 December 1924; Rollins became an apprentice picture engraver on 28 July 1927; he was named picture engraver on 27 Oct. 1936. Rollins engraved the portrait of *Levi Woodbury* on an Internal Revenue stamp. He retired on 22 July 1944.

Stock Transfer Stamps

Campbell, George W.
Crawford, William A.
Folger, Charles J.
Forward, Walter.
Thomas, Philip F.

ROLLINSON, Charles. *Eng.* b. ca. 1793, d. Boston, MA 19 Jan. 1833. He worked with his father, William Rollinson from ca. 1808-1832.

ROLLINSON, William. *PtEng.* b. Dudley, Staffordshire, England 12 Apr. 1762, d. NYC 21 Sept. 1842. He came to the U.S. in 1788; he was in New York City on 15 Feb. 1789. One of his first tasks was chasing the buttons on President George Washington's inauguration coat. He worked as a book illustrator. Rollinson was affiliated with the following bank note firms: Maverick, Leney & Rollinson; Leney, Rollinson & Maverick; Rollinson, Leney & Maverick; Leney & Rollinson; and a company under his name alone. He could be the engraver of the first Bank of New York notes. On 18 March 1811 he published the following prospectus: "The desideratum that has been long wanted to prevent the counterfeiting of Bank Notes, is some kind of work that is of itself simple in appearance yet impossible to be imitated in the common mode of engraving. I take the liberty of laying before you a specimen of work. I have procured the assistance of Mr. William Leney.... The other parts of the Note are engraved by myself" (Brazer 1938, XVII: *4*, 285). In 1812 Rollinson invented a machine to rule waved lines on bank note plates.

ROLPH, John A. *Et & Eng.* b. Essex, England 1799, d. 1862. He assisted J. Smillie at Rawdon, Wright, Hatch & Smillie. Rolph exhibited his art work at the National Academy of Design. He engraved the Rhode Island coat of arms, used on a variety of notes including the unlikely Hawaii $20, P2.

ROLLINSON, Charles. *Eng & CPP.* He engraved for Rawdon, Wright & Hatch ca. 1812. In 1816 his New York address was 28 Pine St.; from 1817 to 1820, 28 John St.

ROLLINSON, William. *Eng.* He is the probable engraver of NY notes (1784), and could be the same engraver who did work for Rawdon, Wright & Hatch ca. 1815. Between 1790 and 1820 his NY address was, at various times, New St., John St., Pine St. and Dutch St.

ROMERSON, D.S. *Des.* He was employed by the National BNCo. The U.S., FC 25¢, H1568-1572, is credited to Romerson..

RONALDSON, Douglas S. *OrEng & LtEng.* b. England 1825, d. 1902. He moved to Philadelphia in 1840 and was working as an engraver in 1858. Ronaldson was employed by American BNCo in that city in the early 1860s. He was with the National BNCo in July 1868 and remained after the consolidation of ABNCo until ca. 1897. At that time he joined the Bureau of Engraving and Printing and remained there until his death.

ROSCH, W. He was in the General Engraving Division of American BNCo in 1911.

ROSE, Edwin G. *LtEng.* b. Washington, DC 6 Feb. 1871. He was the son of engraver George U. Rose. He joined the Bureau of Engraving and Printing as an apprentice engraver on 1 July 1891; he was named engraver on 19 August 1892; demoted to apprentice and resigned on 26 July 1900. Rose was reinstated on 20 July 1900 and renamed as engraver on 28 July 1902. He resigned on 31 August 1924.

ROSE, George. *Eng.* He began his employment at the Bureau of Engraving and Printing on 5 July 1883. Rose retired on 31 March 1922.

ROSE, George U. b. NYC 1843. He joined the Bureau of Engraving and Printing as a clerk in Dec. 1874; he became assistant chief on 18 Dec. 1884; executive clerk on 17 July 1914. Rose left the BEP on 3 Oct. 1915 to supervise the engraving and printing of bank notes for the Bank of England. He then supervised engraving at Waterlow & Sons ca. 1922.

ROSE, George U., Jr. *LtEng.* He began his Bureau of Engraving and Printing apprenticeship on 5 July 1883; he was named an engraver on 1 Nov. 1886. Rose served as Assistant before he became Chief Engraver on 19 Feb. 1913. He retired on 31 March 1922.

ROSCH, Walter. *LtEng.* He was employed at American BNCo from 10 Dec. 1910 until 21 Nov. 1919 with the exception of one year of service during World War I. Rosch returned to ABNCo on 3 May 1920.

ROST, Christian Wilhelm. *PtEng.* b. Lahr, Germany 1824, d. NYC 6 Apr. 1896. He studied in London and Paris before he came to the U.S. in 1856. By 1865 Rost was employed by G.E. Perrine; from 1868 to 1878 he was with the National BNCo where he remained after consolidation with American BNCo.

Foreign Bank Notes

Brazil
Building, 200 mil reis (back), PS649.
Cathedral, 100 mil reis, P60.
Village and Lake, 100 mil reis (back), P70.
Canada
Bank of Montreal, (Toronto) $5 (back), PS522.
Chile
Mopocho Bridge, 10 pesos, P16.

Ecuador
Entrance to Quito, 10 sucres, PS182.
El Salvador
Harbor Scene, 5 pesos, P176.
Honduras
Texas Steer, 1 peso, P29-33.
Mexico
Banco Minero, 10 pesos, PS164 & 50 pesos, PS166.
Cattle Train & Iron Horse, 5 pesos, PS408.
Durango Cathedral, 10 pesos, PS274.
Indian, 50 pesos (back), PS166.
People at Well (eng. with A. Jones), 20 pesos, PS165.
Plaza — City of Mexico, 50 pesos (back), PS260.
Study (see A. Jones).
Sugar Refinery, Hawaii $20, P8.
Village, 10 pesos (back), PS476.
Village Scene, 500 pesos, PS365.
Newfoundland
Union Bank of Newfoundland, $50, PS128.

Corporate Bonds

Brooklyn City Hall, Kings County Elevated RR Co. (1885).
Building, Newark City Water Co.
Cable Car: Denver Tramway Co. (1888); Metropolitan Street Rwy Co. (1889); Omaha Street Rwy Co. (1889); Rapid Transit Street Rwy Co. (1890); Third Avenue RR Co. (1887).
Mount Vernon, Virginia Commonwealth (1879).
Railroad Yard, Houston & Texas Central RR Co., Waco & NW Division (1900).
Texas Steer, Cattle Growers Stock Yard Co. (1887).
Train (art probably by J.D. Smillie), New York, New Haven & Hartford RR Co. 4% convert. deb. (1893).

Corporate Bonds
(continued)

Train, Beech Creek Extension RR Co. 3½% 1st mort. cp. bd. (1901).

Stock Certificates

Alice Gold & Silver Mining Co. (1880).
Anaconda Mining Co. (1891).
Antique Train, Baltimore & Ohio Rwy Co.
Bassick Mining Co. (1879).
Brooklyn City Hall, Kings County Elevated RR Co.
Cattle Train & Iron Horse, International Rwys of Central America.
Floodgate, Great-Falle Water Power Co.
LaPlata Mining Co. (1879).
Richter Plant, Richter Electric Construction Co.
Stable Car, Street's Western Stable Car Co. (1889).
Texas Steer, American Meat Co. (1888).
Woodstock Iron Co. (1887).
Works at Chicago, Murphy Varnish Co. (1891).

Miscellaneous

City of Boston, New England Mutual Insurance Co.
Fruit Grove, First National Bank of Los Angeles, draft and CD (1885).
Louisiana Statehouse, State of Louisiana bond (1892).
New Zealand Government Life Insurance policy (1886).
Omaha National Bank checks (1889).
Union Club (NY), Members Certificate & Invitation (1880).
U.S. Capitol, Inaugural Committee Card (1901).

ROTH, Charles L. *ScrpEng.* His apprenticeship began in 1915. In 1932, as a test of his ability, Mr. Roth engraved "The Lord's Prayer" on the head of a nail. As late as the 1960s he was employed by the Security-Columbian BNCo.

ROTHERMEL, Peter F. *Art.* b. Luzerne County, PA 1817, d. near Pottstown, PA 1895. He studied under Bass Otis and went to Europe in 1856 for further study. Mr. Rothermel served as a director of the Pennsylvania Academy of Fine Arts from 1847-1855. His painting, *Patrick Henry Before the Virginia House of Burgesses* was engraved by Alfred Jones in 1852; the *Battle of Gettysburg*, painted for the Legislature of PA in 1871 was engraved by John Sartain. In the 1860s Mr. Rothermel submitted art work to ABNCo.

ROWDEN, Frank W. *GLO.* b. New Jersey 1854. He joined the Bureau of Engraving and Printing as a transferrer on 13 July 1896 and became a geometric lathe operator on 15 Nov. 1902. Rowden retired on 25 June 1909.

ROY, _____. *Trans.* (see Amendt.)

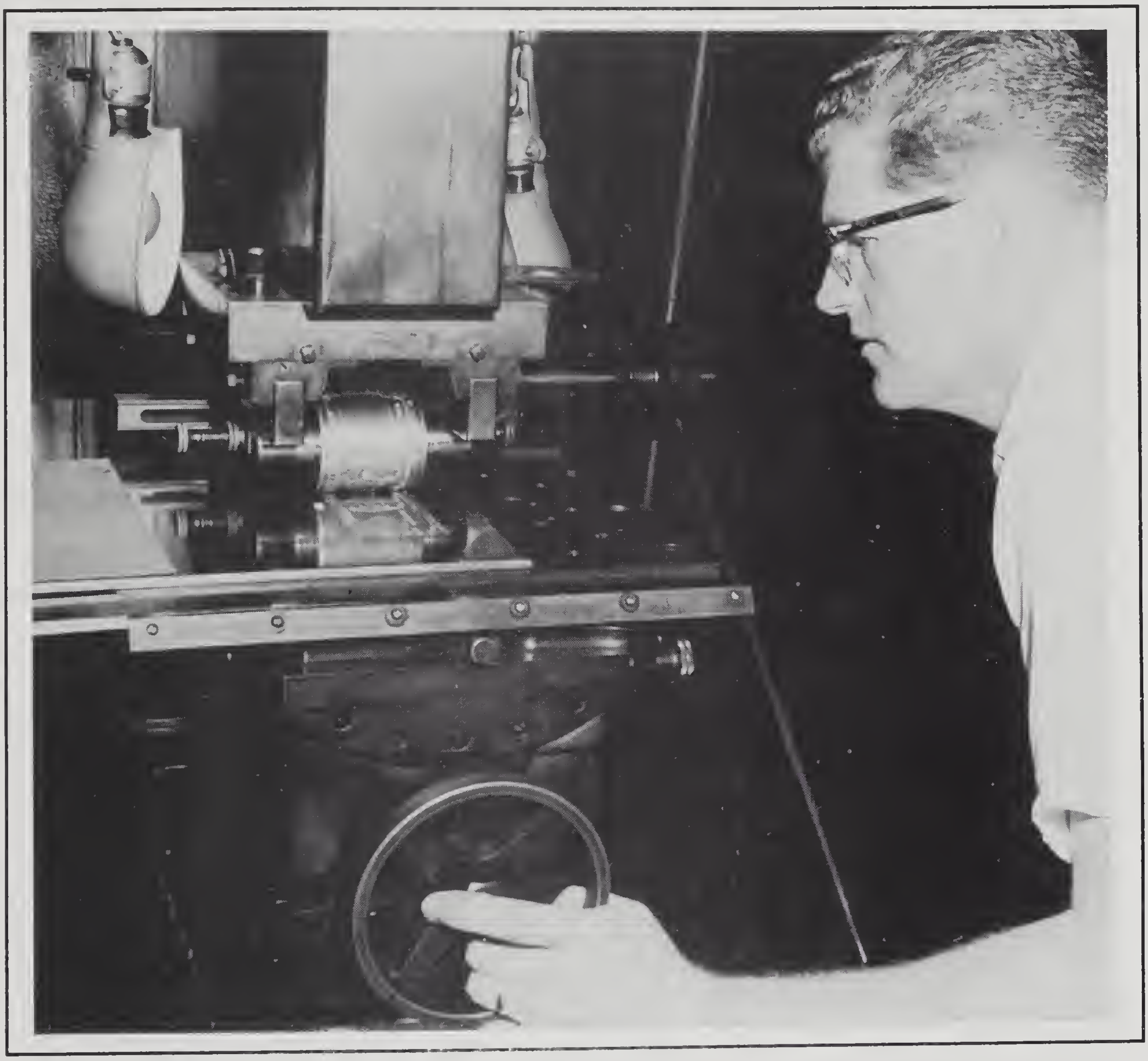
RUEFF, Joseph A. *PEng & LtEng.* b. ca. 1840, d. ca. 1910. In 1864 Rueff was engraving for the Western BNCo. Then he joined John A. Lowell & Co. in Boston. With C.L. Schultz(e) he formed a partnership of J.A. Rueff & Co. in 1881 first at 104 Chambers St., NYC; from 1897 until 1909 at 31 Union Square West. The last address for Rueff was 152 E. 23rd St., NYC. In addition, after 1890, Rueff did engraving for American BNCo and the Bureau of Engraving and Printing. He is one of four engravers who engraved the $100 back, H1242.

RUSHALL, George. *GLO.* He was affiliated with Perkins, Bacon & Heath.

RUSSELL, Delia M. b. Ireland 1898. She joined the Bureau of Engraving and Printing on 13 May 1918; she became an operative on 1 Dec. 1920 and also worked as a printer's assistant. Russell resigned on 7 Aug. 1922.

RUSSELL, Joseph. *Pr.* b. Boston ca. 1734, d. Nov. 1795. He served his apprenticeship under Daniel Fowle and became a partner with John Green.

RUTHER, V. Jack. *Des.* b. Detroit, MI 6 Jan. 1944. After a year of civil engineer study at George Washington U. he moved to the Corcoran Gallery School of Art. On 8 Sept. 1968 Ruther began his seven-year apprenticeship at the Bureau of Engraving and Printing. In 1988 he was serving as president of the Banknote Engravers Guild of Washington, DC, a term that began in 1979. Mr. Ruther has modeled a considerable number of U.S. postage stamps. He designed the Kenneth Wiram card and other miscellaneous souvenir cards.



RYAN, Jack. *Sid.* He was employed at the Security BNCo until he came to the Bureau of Engraving and Printing in Nov. 1960. Mr. Ryan died on 12 March 1979 while employed at the Bureau of Engraving and Printing where the above photograph was taken.

RYAN, Michael J. *LtEng. & ScrpEng.* b. Brooklyn, NY 18 Feb. 1951. He was employed at American BNCo from 1975-1985 and then moved to the Bureau of Engraving and Printing. See postage stamps beginning with 1985.

RYAN, William F.J. *Des.* b. ca. 1903. He was the president of the Ryan-West BNCo in NYC. This company specialized in engraving stock certificates, bonds and heraldic coats of arms. Ryan, a graduate of Fordham U., designed coats of arms for John P. Cody as Auxiliary Bishop, Bishop and Archbishop. Ryan described heraldry as "medieval license plates."

RYERSON, W.C. *Trans.* He was employed at American BNCo in the early 1860s.

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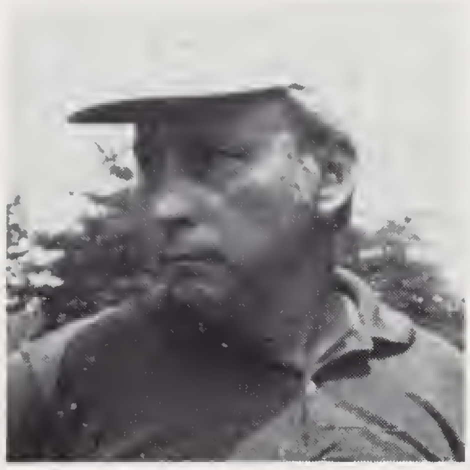


SAAVEDRA, Albert. *LtEng & ScrpEng.* b. Mt. Pleasant, NY 28 Jan. 1927. He began his apprenticeship at American BNCo in June 1947. After 21 years he joined the Bureau of Engraving and Printing where most of his work has been on postage stamps. See U.S. postage stamps beginning with the year 1969.

SAGE & SONS. This bank note printing firm was located in Buffalo, NY. The $1, $3, $5 & $10 notes issued by the Manufactures Bank of Hartford, IN are examples of their work.

ST. LOUIS BANK NOTE CO. This company is listed in the city directory as early as 1885 at 409 N. Fourth St. One year later this company and an office of the Western BNCo are listed at the same address, 214 & 216 Chestnut St., St. Louis. St. Louis BNCo probably became a subsidiary of WestBNCo.

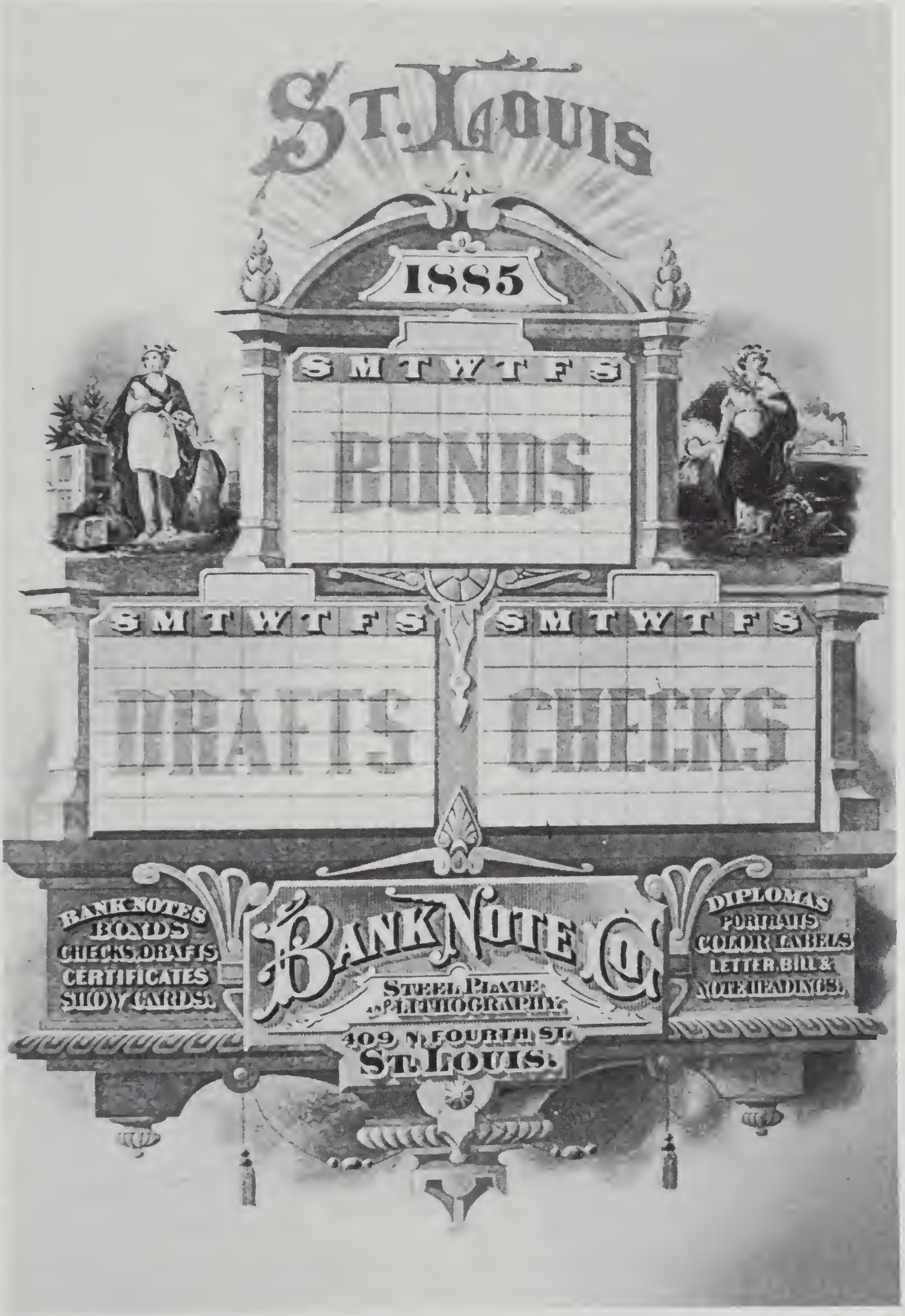
SANDHOP, William. *Lith.* b. Bronx, NY ca. 1900, d. ca. 1984. He was employed at American BNCo from 1917-1967. He is the father of W. Sandhop the siderograpgher.

SANDHOP, William, Jr. *Sid.* b. Bronx, NY 4 July 1930. He was educated in NYC schools. Following four years in the U.S. Air Force during the Korean War Mr. Sandhop joined American BNCo on 5 Jan. 1955 and remained there until the company was purchased in 1990.

SARONY, Napoleon. *Art & Lith.* b. Quebec, Canada 9 March 1821, d. NYC 9 Nov. 1896. He came to NYC ca. 1836 and studied drawing. Sarony worked as a lithographer with H.R. Robinson and N. Courier. He formed a partnership with Henry B. Major in 1846. In 1857 Joseph F. Knapp joined the firm known as Sarony, Knapp & Major. Ten years later Sarony left to work in Europe. He operated a photography studio in Birmingham, England and did the same when he returned to NYC.

SARTAIN, John. *PEng & PtEng.* b. London 24 October 1808, d. Philadelphia 25 Oct. 1897. He served his apprenticeship with John Swain and in 1827 with Henry Richter. Following considerable success with his mezzotints he came to the U.S. in 1830 where he introduced this technique. During his lifetime he engraved over 1,500 subjects for magazines, e.g., *Graham's Eclectic, Campbell's Foreign Semi-Monthly* and *Sartain's Union Magazine.*

Sartain engraved for Fairman, Underwood and others, but he found bank note engraving tedious. Sartain was secretary of the PA Academy of Fine Arts in 1875 and designed the *Washington & Lafayette Monument* in that city. He was the chief administrator of fine arts at the Centennial Exposition in Phila. in 1876. Four of his eight children, Samuel, Henry, Emily and William became engravers or artists.



ST. LOUIS

1885

S M T W T F S

BONDS

S M T W T F S

DRAFTS

S M T W T F S

CHECKS

BANK NOTES
BONDS
CHECKS, DRAFTS
CERTIFICATES
SHOW CARDS.

BANK NOTE CO.
STEEL PLATE & LITHOGRAPHY.
409 N. FOURTH ST.
ST. LOUIS.

DIPLOMAS
PORTRAITS
COLOR LABELS
LETTER, BILL &
NOTE HEADINGS.

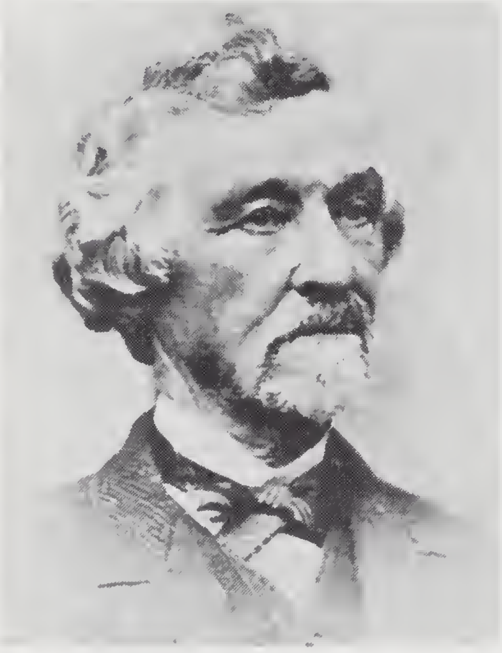
An advertisement for the St. Louis Bank Note Co.

SARTAIN, Samuel. b. Philadelphia 1830. At age 15 he began his art studies with his father, John. The last work of the younger Sartain, in pure line, was the "pictorial embellishments of the Certificate of Stock for 'The Pennsylvania Academy of Fine Arts,' the entire design for which is from his pencil" (Baker 154).

SASS, Maxwell S. *PlPr.* b. Durham, NC 1892, d. ca. 1984. Mr. Sass, father of Richard Sass, was employed at American BNCo from ca. 1911 to the 1950s. In 1924 and 1925, Alice McGillich, who became Mrs. Sass, was employed in the printing division as a paper feeder.

SASS, Richard. *PlPr.* b. NYC 4 Dec. 1926. He attended New York City schools including two years at City College. Mr. Sass, a boater and volunteer fireman, came to American BNCo on 17 Dec. 1946 for $28.50 per week.

SAULNIER, Henry. b. Oct. 1843, d. 1 Nov. 1894. This is the son of H.D. Saulnier. He was the manager of American BNCo in Philadelphia in 1843.



SAULNIER, Henry Edward. *Scrp & LtEng.* b. Philadelphia 6 Jan. 1811, d. Ivy Mills, Delaware County, PA 13 Mar. 1907. He was trained under C.G. Childs. In 1832 C. Toppan offered him sporadic employment. It was there that he learned to operate the transfer press. In a letter to a friend, Saulnier wrote: "...I gave up engraving and turned my attention to that branch of the bank note business." He probably joined Toppan, Carpenter, Casilear & Co. in 1847 and was a member of Toppan, Carpenter & Co. when ABNCo was formed in 1858. It is uncertain how long he remained with ABNCo; it could have been as late as 1884. When John Draper retired, Saulnier and W.C. Smillie purchased his share in Toppan, Carpenter & Co. Saulnier engraved one of the earliest certificates for the Franklin Institute in Philadelphia.

SAVAGE, Robert. *PEng & PtEng.* b. Ireland, 10 Oct. 1868, d. Orlando, FL 23 July 1943. At age one he came to the U.S. with his family; they settled in New York. In 1885 he was engraving for Baldwin & Gleason and on 20 Feb. 1891 he joined American BNCo. In 1907 Savage became the head of the Picture Engraving Dept. at ABNCo. He did not enjoy the supervisory position; he preferred to devote all his time to engraving. Savage once told engraver, Harold Osborn that he would rather engrave than go on vacation. Mr. Osborn said "tell that to the Co. and we will never get an increase." Robert Savage ranks among the great engravers of the 20th century. A portrait of Sun Yat-sen was done for the Chinese National Railroad Co. Although Savage retired in Sept. 1925, he was recalled in 1943 to engrave a portrait of Chiang Kai-shek ($4\frac{1}{2}$ x $5\frac{1}{2}$ inches). While engraving this portrait he became ill and died; William Ford finished the portrait.

Foreign Bank Notes

Bolivia

Coffee Bean Picking, 10 bolivianos, PS174.
Human Figures (3), Banco Industrial de la Paz, 50 bolivianos, 1 June 1900.
Mercury (seated) (eng. with E. Gunn), 50 & 100 bol., PS110 & PS111.
Natives (one kneeling), 50 bol., PS165.

Brazil

Caduceus, 20 mil reis, P44.
Centenary of Brazilian Ports, 50 reis, 1908, unissued.
do Rio Branco, B., 5 mil reis, P24, P29 & P112.
Female Holding Statue of Victory, 5 mil reis, P72.
Female in Helmet, 500 mil reis, P83.
Female portrait, 200 mil reis (back), P76.
Moraes, Dr. P., 200 mil reis, P79.
Osario, Gen., Statue, 100 mil reis (back), P61.

Bulgaria

Rose Harvesting, 1,000 leva, P44.

Canada

Beaver, $10 (back), PS1024 and $50 (back), PS1027.
Bickerdike, Mr., $10 & $20, P817 & P818 (right side).
Carlisle, C.H. (eng. with R. Ford), $5, PS1033.
Carlisle, C.H. (eng. with E. Gunn), $5, PS1035 & $10, PS1036.
Cowan, W.F., $10, PS1442 & $100, PS1446.
Dodds, Jackson, Canada $10-$50, PS554-556.
Dodds, Jackson (altered by E. Gunn), $5, PS561.
Duke of York, $50, P50 & P51.
Female and Globe, $5, PS947.
Females (2) & Cupid, $10 (left), PS966.
Female with Scythe, Canada $500, P54 & P55.
Forget, R., $5, PS816.

George V, $1,000, P29 & $50,000, P32B.
George V, $1, P33, P38 & P39 & $500, P36.
Harvesting, $5, PS1493 & PS1495.
Howland, Peleg, $5-$100, PS1142-1145A.
Industry and Science, $50, PS968.
Leman, Beaudry (eng. with E. Loizeaux), $10-$50, PS812-814 (right side).

Canada

Liberty Reclining (altered, see A. Jones), $10, PS1025.

Mary, Queen, $50,000, P32B.
Mercury, Agriculture and Invention, $5, PS965.
Mercury and Agriculture $5-$100 (backs), PS965-969.
Montreal Arms, Bank of (eng. with H.P. Dawson), $5-$100, PS543-547.
Naiads (three nymphs), $20, PS967.
Ottawa Arms, $5 & $10 (backs), PS657 & P658.
Pease, E.I., $50, PS1381.

Prince of Wales, $2, P34.
Radio (woman seated at microphone), $50, P50 & P51.
Roy, Charles A. (eng. with W. Adolph), $5 & $10, PS921 & P922.
Starting the Drive (Lumbering), $5, PS657.
Trader's Bank of Canada (eng. with C. Dawson), $5-$100, PS1477-1481 (backs).
Vaillancourt, J.A. (eng. with W. Adolph), $10-$50 (left side), PS812-814.
Wilson, M.W., $5-$20, PS1388-1390.

China

Chinese Scene, $1 (back), P16.
Five-Story Pagoda, 50¢ & $5, PS2395 & PS2398.

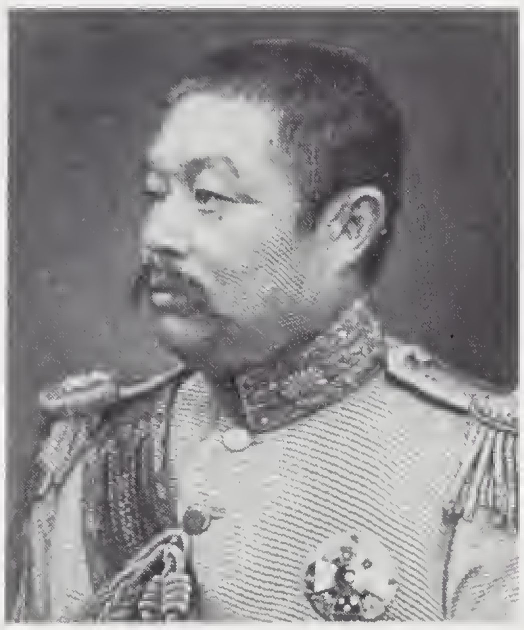
Foreign Bank Notes
(continued)

China

Great Wall (eng. with C. Dawson), $1-100, PS447-456.

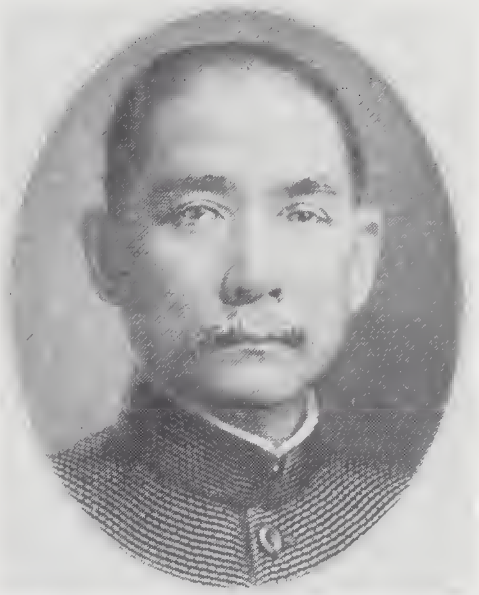
Horse (eng. with L. Delnoce, Jr.), 1-100 yuan, P525-529.

Huangti, Emperor, $1-100, P30-32B.



Li Yuan-Hung, $1-$10, P25-27.

Porte de Tchoun-Che-men (eng. with C. Dawson), $10 (back), P32.



Sun Yat-sen, 5-100 yuan, P84-88, 500 yuan, P99, 1,000 yuan, P100, $1-$100, P195-200; 10¢-500 custom gold units, P323-332.

Whampoa Pagoda, $1, P2401.

Yuan Shih-kai, $1-$100, P33-35b.

Colombia

Angels, 1 peso, P385.

Santander (eng. with E. Loizeaux), 10 pesos, P324.

Costa Rica

Coffee Bean Picking, 10 colones, P161.

Field, W.J., 10 col. P169.

Liberty (eng. with E. Gunn), 1-100 col., P158-164.

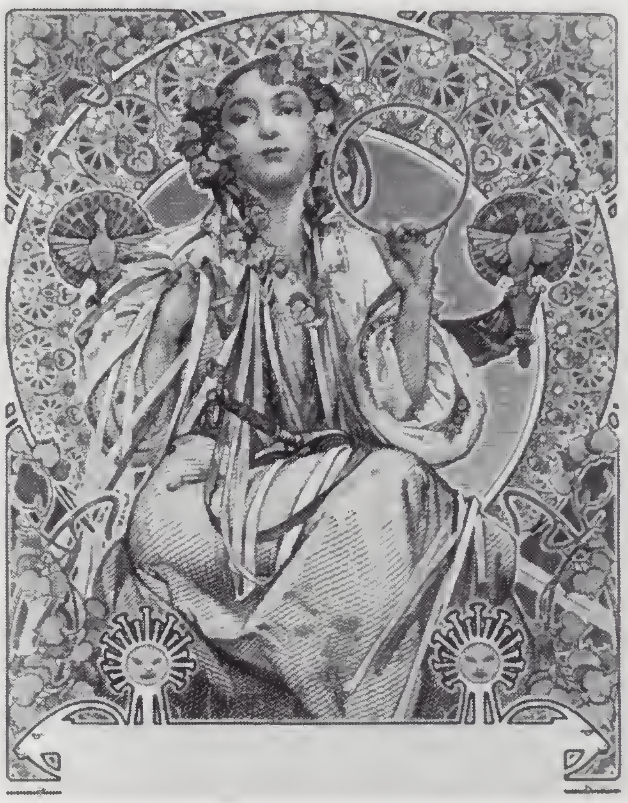
Liberty Reclining (altered, see A. Jones), 20 col., P159.

Victory, 100 pesos, PS205.

Czechoslovakia

Czech Woman, 100 korun (back), P15.

Female and Globe, 1,000 korun, P13 & P25.



Slavia, 100 korun, P15.

Slovak Woman, 100 korun (back), P15.

Ecuador

Benalcazar, 10 sucres (right side), PS104.

Larrea, M.J. (eng. with E. Loizeaux), 1 sucre, PS222.

Making Panama Hats, 2 sucres, PS102.

Street Scene, 20 sucres (back), PS126.

El Salvador

Cafe Maduro, 10 pesos, PS143.

Coffee Bean Picking, 10 pesos, PS143.

Liberty Reclining (altered, see A. Jones), 100 pesos, PS207.

German Federal Republic

Female Allegory (completed by L. Kauffmann, etched by H. Osborn, art by A. Foringer), 50 marks, P7.

Greece

Demeter Seated, 1,000 drachmai, P69.

Peace Holding Pluto, 100 dr. (back), P53.

Guatemala

Paloma, 50 pesos, PS104.

Haiti

Harvesting, 1 gourde (back), P131.

Hawaii

Native Man, $5, P11.

Pallas Athena, $20, P8.

Honduras

Agriculture & History (two females & two children), 10 lempiras, PS124.

Soto, S., 10 lempiras, P43.

Iran

Pahlevi, Mirza Reza, 10-1,000 rials, P25-30.

Jamaica

Female with Sword & Palm, £1, PS131.

Foreign Bank Notes

(continued)

Luxembourg

Charlotte, Queen (finished by E. Gunn), 100 francs, P39 & P47.

Martinique

Agriculture (seated female), 100 francs, P19.

Harvest No. 4, (seated female), 1000 francs, P20.

Mexico

Agriculture & History (two females & two children), 500 pesos, PS137.

Commerce (two women), 50 pesos, PS432.

Farmer and Ox Cart, 10 pesos, PS114.

Farmer and Wagon, 1,000 pesos, PS344.

Female and Basket, 20 pesos, PS440.

Female and Boys, 50 pesos, PS341.

Female and Child, 50 pesos, PS402.

Female in Folk Costume, 20 pesos, PS373.

Five Peasants in Village Square, 50 pesos, PS323.

Gypsy Girl, 5 pesos, P699.

Harvesting, 20 pesos, PS134.

Horsemen (finished by R. Savage), 1,000 pesos, PS444.

Industry & Civilization (two women & child), 1,000 pesos, PS435.

La Corregidora (*J. Ortiz de Dominguez*), 20 pesos, P717.

Mexico

Madero, F.I., 25¢-100 pesos (left side), PS1069-1076 & 100 pesos, P708.

Man Before Cart, 1,000 pesos, PS344.

Marina "La Malinche", 5 pesos, PS424.

Morelos, Jose M., 10 pesos, PS686.

Navigation (woman with ship & rudder; eng. with F.L. Siebert), 50 pesos, P702.

Ore Loading Platform, 5 pesos, PS353.

Paloma, 5 pesos, PS345.

Panoramica de Guanajuato en 1828, 10 pesos (back), P715.

Puebla, 10 pesos, PS382.

Water Carrier, 20 pesos, PS392.

Newfoundland

George V, $1, PA14.

Nova Scotia

McLeod, J.A., $5, PS632.

Paraguay

Female and Child, (*Bildhauerei*), 500 pesos, P10.

Female with Basket, 1 pesos, P2, P12, P22 & P41.

Portugal

de Menezes, D.A. Luiz, 20 escudos, P68.

Spain

Elcano, Juan S., 500 pesos, P84.

Rosales, E., 50 pesos, P82.

Turkey

Inonu, Pres. Ismet, 100 lira, P89.

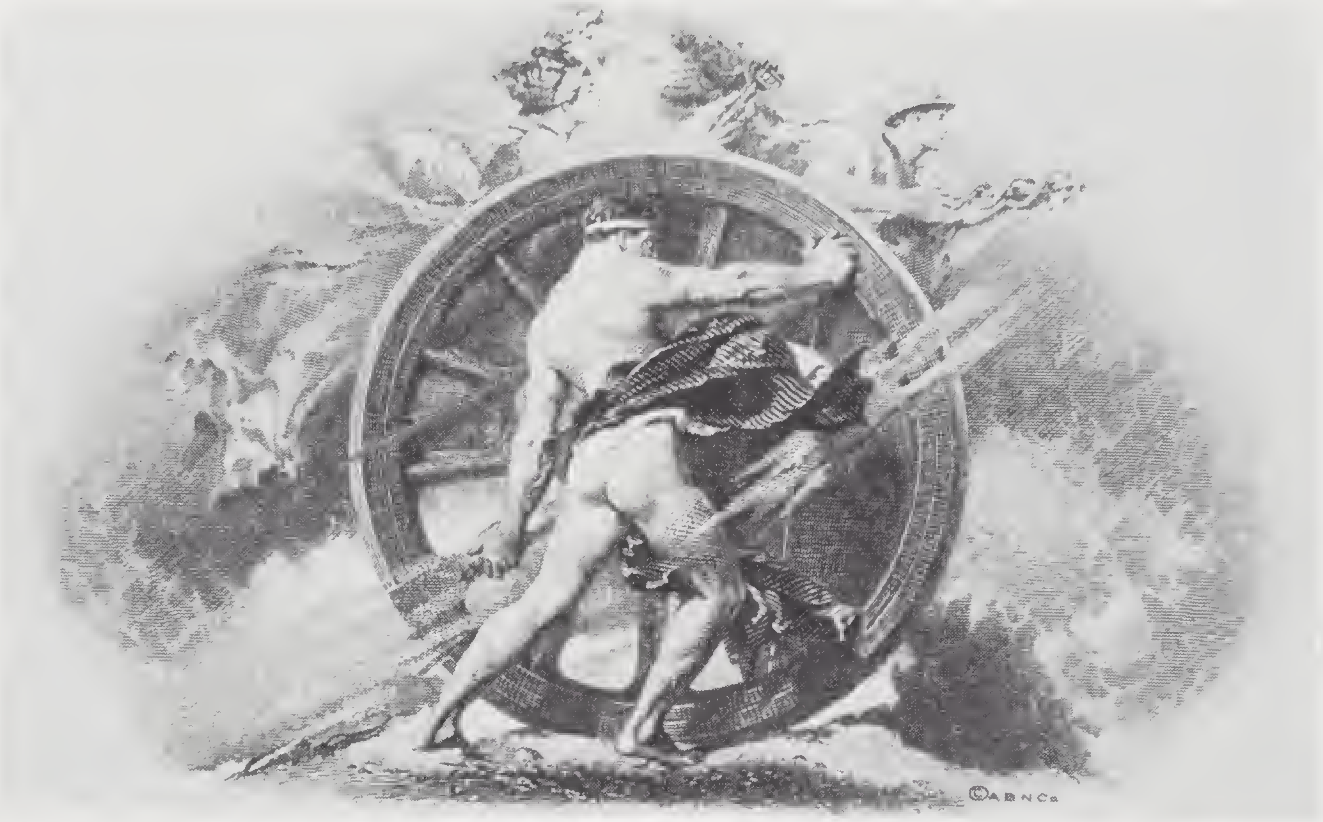
Venezuela

Urdaneta, Gen. R., 10 bolivares PS171, P173 & P174.

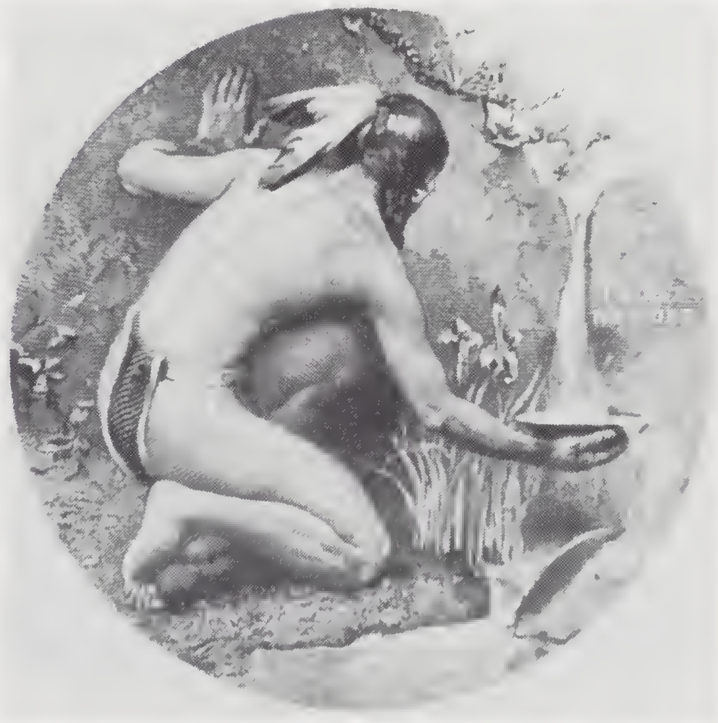
Yugoslavia

Progress, 10 dinars, P21. (This is on the 1935, Canadian 20¢ stamp, possibly by S.R. Allen.)

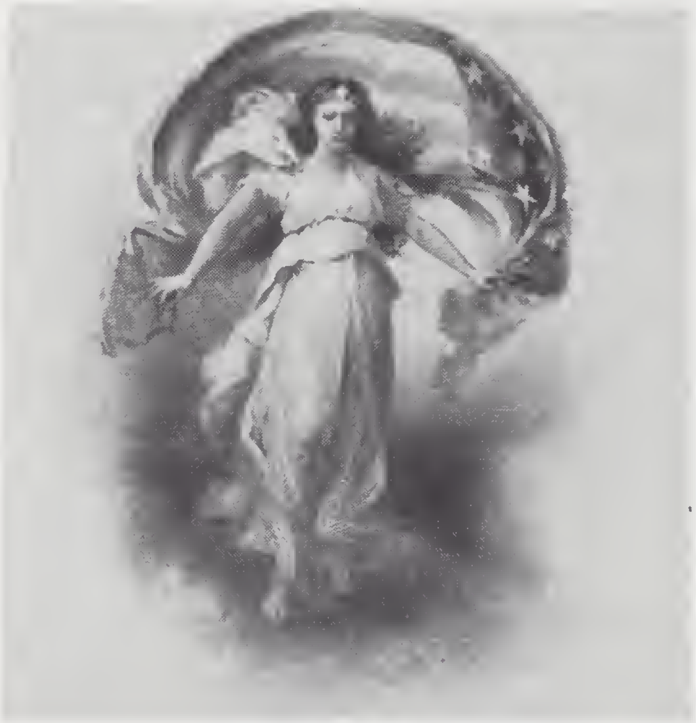
Engravings by Robert Savage



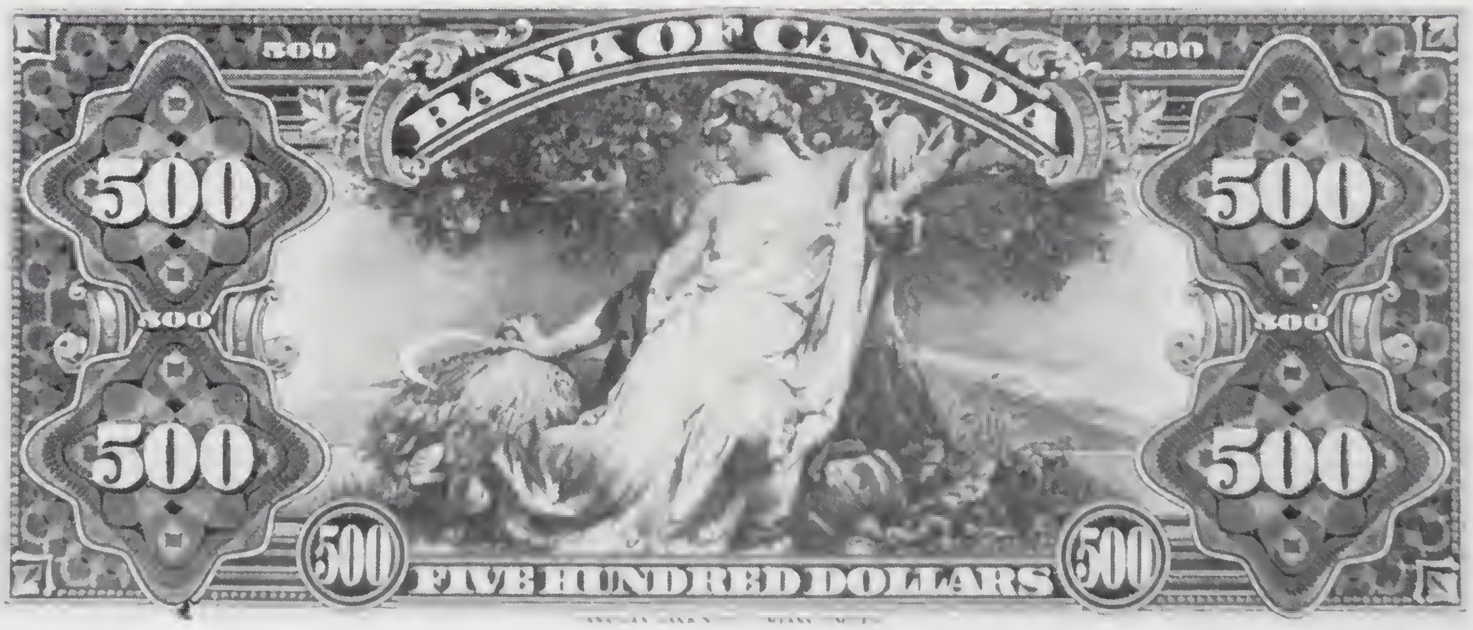
Progress, see Yugoslavia and stock certificates.



Thirst No More, see bonds.



A New Star for the Flag, use uncertain.



Female with Scythe, Canada $500, P54 & P55.

Corporate Bonds

Alexander Graham Bell, AT&T.
Arms of New Jersey, New Jersey Turnpike Authority 3 3/8% second series cp. bd. (1953).
Battle of Liao Yang, Japanese 6%, Sterling Loan 1904-1911.
Britannia (eng. with M.W. Baldwin), Commonwealth of Australia (1925).
Building and Trains, Spokane & Inland Empire RR (1906).
Canoes and Trees, Bangor & Aroostook Railroad.
Electricity, General Electric Co. 3½% cp. debenture (1894).
Electricity (eng. with W.J. Brown), Maryland Electric Rwys. Co. 6½%, 1st mort. (1924).
Electricity, Cable Company of TX (1898); OH State Telephone Co. (1914); Westinghouse Electric & Manufacturing Co. (1898).
Female and Child, Equitable Illuminating Gas Light Co., Phila. (1896).
Female Portrait (started by W. Jung), Cuba RR Co. (1926).
Female Portrait (small), (eng. with R.L. Siebert), Czechoslovak State (1924).
France (female & 2 men), The Pillsbury Co. 4 3/4% debenture, (due 1989).
Girl and Beehive, City of Munich, Germany (1925).
Justice, New Amsterdam Gas Co.; Edison Electric Co., New Orleans (both coupon bonds, 1897).
Justice & Industry (art by A. Foringer), Metropolis of Tokyo (1964).
Moose and Moosehead, Bangor & Aroostook Railroad.
People and Horses on Frozen Lake, New England Consolidated Ice Companies 5% 1st mort. cp. bd.
Railroad Workers (1898): Chicago Northwestern RR Co; Kentucky & Indiana Bridge and RR Co. 4% coupon bond; New Orleans, Texas & Mexico Rwy Co.
Reapers (small) (eng. with W. Brown), Czechoslovak State (1925).
Science, Industry and Agriculture (art by A. Foringer): Allegheny Corp. (1929); Florida Power & Light (1926).
Scientific Progress, Hooker Chemical Corp., 4 7/8% deb. (due 1991).
Thirst No More (eng. with W.J. Brown), Spring Valley Water Co.
Traction Car (eng. with H.P. Dawson), Buffalo and Lake Erie Traction Co. 5% 1st refunding mortgage coupon bd. (1906).
Trolley and Carriage, Boston Rapid Transit Loan.

Stock Certificates

Abundance (art by A. Foringer), Standard Milling Co. (1946).
Agriculture, Florida Power & Light (1949).
Agriculture and Foods (Harvesting No. 4), Castle & Cooke Inc.
Agriculture & History (two women & two children), Kroger Grocery & Baking Co. (1928 & 1946).
Art, General (Tire) Corp. (1984).
Aviation No. 8 (art by A. Foringer), Pan Am World Airways (1949).
Aviation No. 9 (woman and Mercury; art by A. Foringer), United States Lines (1946).
Beaver, Farmers Deposit National Bank.
Continental Soldier, Continental TC of Boston (1899).
Dynamo, Allis Chalmers Co.
Eagle on Shield: New England Cotton Co. (1903); U.S. Reduction & Refining Co. (1898).
Electricity, Scranton Electric Co. 4.4% preferred stock.
Female and Cupids, Edison Electric Co. of New Orleans (1896).
Female Holding Fruit, FL Power & Light (1978).
Female with Sword, Columbia Gas & Electric Co. (1900).
Harvest, The (art by A. Foringer), National Candy Co. (1944); Green Giant Co. (1960).
Harvest No. 4, Castle & Cook Inc.; American Family Corp.
Hathaway, Mr. (eng. with S. Smith), Hathaway Manufacturing Co. (1925).
Industry and Civilization, Balaklala Copper Co.
Justice and Industry (art by A. Foringer), List Alden Corp (1958).
Logging, Goodyear Lumber Co.
Man and Two Women (facing right), Public Service Electric & Gas Co., NJ.
Mercury, General Telephone Co. (1935); GT&E (1958 & 1982).
Merchants Limited (train; eng. with C. Dawson), NY, New Haven & Hartford RR (1907).
Miners, Tramp Consolidated Mining Co. (1904).
Minerva Surrounded, The Fair.
People in Train Station, Interborough Rapid Transit Co.
Power Plant, Newark Gas Co.

Stock Certificates

(continued)

Prince (dog), Farmers Deposit National Bank, Pittsburgh, PA.
Progress: American European Securities Co., 1926; Bucyrus-Erie Co. (1927); Chesapeake Corp., 1927; Chrysler Corp. (1925); Florida Power & Light (1926); Packard Electric Co. (1929); U.S. Plywood Corp.
Pump, International Steam Pump Co.
Science and Agriculture (art by A. Foringer): Fern Laboratories (1947); Northwestern Yeast Co. (1945).
Scientific Progress, Profit Technology Inc.
Security Safe, Herring-Hall-Marvin Co.
Trident (man, produce and woman), Hoover Mercantile Co.
Trolley Car, NY, New Haven & Hartford RR (1907).
Trolley Car Street Scene (eng. with W. Brown): Grand Valley Rwy Co. (1909); Toronto Rwy Co. (1910); Northern Traction Co.; Philadelphia Traction Co.

Miscellaneous

Story of American Bank Note Co.: *Alexander J. Cassatt*; *Paul Revere*; *Agriculture and Foods* or *Harvest No. 4*.
Britannia (eng. with M.W. Baldwin), Government of the U.K. of Great Britain and Northern Ireland gold note (1919).
France (female & 2 men), Republic of Cuba cp. bd. (1937).
George V, King, Dominion of Canada War Loan $100, 5½% bd.
Liberty (art by A. Foringer), Travelers check, Republic NB of Dallas, TX (1938).
Mary, Queen, Dominion of Canada War Loan $100, 5½% bd.
Rowe, Wallace H., Jr., checks for W.H. Rowe of Pittsburgh, PA (1905).
Tropical Agriculture (seated woman; art by A. Foringer), U.S. Postal Panel (1982).

Stamps

Chile, *Battle of Maipo*, A17.
Ecuador: *Valdez*, 4¢, A78; Commemorative air mail 50¢ (eng. with A. Vogel), 1937.

SAVIGNETE, _____. *Eng.* He engraved for Rawdon Wright & Hatch ca. 1815, and is credited with a portrait of General Jackson.

SAZIO, A(r)mando. *PEng.* He was employed at American BNCo in the 1920s.

SCANTLIN, Stanley E. *ScrlEng.* b. Benton Harbor, MI 8 March 1949. He attended Western Michigan University for four years, but left in 1971 before graduating to begin an apprenticeship as a silver engraver for the Colonial Williamsburg Foundation. During this period Mr. Scantlin attended the College of William and Mary to study art and printing. In 1975 Scantlin began his apprenticeship at the Bureau of Engraving and Printing under Equesto A. Ligi. In addition to his U.S. government work Mr. Scantlin is an award-winning engraver of commissioned ex libris, stationery, cards and certificates. His engraved work includes the Kenneth Wiram 50th anniversary card. Mr. Scantlin retired from the BEP in 1990.

SCHERNIKOW, Ernest. d. 1934. He was secretary of the Hamilton BNCo in 1893 and president in 1907. He purchased most of the master dies and equipment when the Philadelphia BNCo liquidated in 1900. In 1910, while Schernikow was president, Nicaragua was persuaded to award their postal contract, formerly with American BNCo, to the Hamilton BNCo.

SCHEER, William L. *Des.* He was employed at American BNCo from 1919-1969.

SCHERER, John. *LtEng.* He was engraving at American BNCo in 1959.

SCHICK, L.E. A captain in the U.S. Army, he supplied the design for the 1937, 5¢ U.S. Army stamp.

SCHLECHT, Charles. *PEng & PtEng.* b. Stuttgart, Germany 1843, d. NYC 1932. He came to the U.S. in 1852 with his parents. His apprenticeship at American BNCo began in 1859; additional instruction came from Charles Burt and Alfred Jones. In 1864, the year of organization, Schlecht joined the WestBNCo in Chicago. He later returned to ABNCo and engraved the first postal card for Hawaii and numerous Latin American postage stamps. On 5 Aug. 1893 he was appointed to the Bureau of Engraving and Printing at $5,000 per year; at this time he engraved the U.S. Government diploma for the Columbian Exposition. By 1900 Schlecht had left the BEP. After engraving independently he returned to ABNCo. Numerous magazine illustrations were done by this engraver including the portrait of W.T. Sherman in *Appletons' Cyclopaedia of American Biography.*

United States Federal Bank Notes & Bond

Agriculture and Forestry, $10 SC, HE1499f.
Decatur, Stephen, $20 SC, H808-817.
Everett, Edward, $50 SC, H1014g-1028.
Farragut, David G., $100 TN, H1242 & H1243.
Hancock, Gen. Winfield Scott, $2 SC, H178-182.
Hendricks, Thomas A., $5 SC, H590-602.
History Instructing Youth, $1 SC, H45 & H46.
Marcy, William L., $1,000 SC, H1405-1411.
Marshall, John, (portrait by Henry Inman): $20 TN, H843-847; $500 FRN, H1370; $1,000 bond, HX170J.
Morris, Robert, $5 SC, H578-589; $1,000 USN, H1376-1378b.
Seward, William H., $10 NBCN, HE NE17; $50 TN, H1043.

Foreign Bank Notes

Argentina
Gaucho, 20 pesos, PS1805.
Liberty, 10 pesos, PS1577.

Brazil
Ceres (Antique Poesy; art by Jules Lefebvre), 500 mil reis, P87.
St. Sebastian, 50 mil reis PS253 & 100 mil reis PS254.

Canada
Antique Poesy (see Brazil), $5, PS1443.
Britannia, $5, $20 & $100, PS461, PS463 & PS465.

Colombia
Minerva, 2 pesos/dollars, P103.

Costa Rica
Female Seated, with Book, 20 colones, P187.
Female with Sword, 20 colones (back), P162.

Dominican Republic
Columbus in His Study, 5 pesos, PS105.

Ecuador
Larrea, M.J., 5 sucres, PS223.

Hawaii
Horse, $20, P8.

Little Family, $20, P2.

Honduras
Black Beaded Eyes, 1 peso, PS131.

Mexico
Black Beaded Eyes, 50¢, PS161.
Gen. Mariano Escovedo, 5-100 pesos, PS352-356.

Paraguay
Government Palace, 2 pesos, P3 & P13.

Uruguay
Gaucho, 1 peso, PS383.

Antique Poesy

George M. Pullman

Miscellaneous

Arms of the City of Philadelphia (1892), City of Philadelphia cp. bd.
Cabrero, Don M.E., Guatemala 5 pesos stamp, A41.
Female: C.A. Edison Co.; Starrett Corp. stock certificate.
Female (leaning on right hand), Sandusky Fremont & Southern Rwy. 1st mort., 5% cp. bd. (1906).
Minerva: Lake Gas Co. $500 1st mort. bd. (1882); Columbus Copper Co. stock certificate (1906).
Neptune & Two Females, City and County of Denver municipal water 4¼% cp. bd. (1927).
Pullman, George M., The Pullman Co. stock certificate.
Volcano San Miguel, Salvador ½-4 reals stamps, A1.
Young Thomas Edison, Edison Portland Cement Co. stock certificate.

SCHMIDT, James (Immanuel) Albert. *Eng & Trans.* On 26 Aug. 1861, 5,000, Confederate States of America interest-bearing notes were completed by the Southern BNCo, the southern branch of American BNCo. Two days later ABNCo was declared an alien firm, all equipment and paper was confiscated and moved to the firm of Leggett, Keatinge & Ball in Richmond. Schmidt was permitted to remain and work a few presses, however, production was too slow and he was ordered "to give up the plates, and send them by special messenger" to Richmond (Todd 94).

SCHMIDT, Solomon. *Eng.* b. ca. 1806, d. after 1870. About 1840 he came to the U.S. from Baden, Germany. He engraved for Rawdon, Wright & Hatch in New Orleans 1843-1850, and acted as agent 1851-1858. "Between May and September, 1861 the New Orleans office, under Schmidt's direction, produced a small number of Confederate notes bearing the words 'Southern Bank Note Company,' and kept busy, it appears, serving its other regular customers" (Griffiths 40).

SCHNEBLE, E. *LtEng.* He was employed at the Bureau of Engraving and Printing.

SCHNEIDER, Henry. *LtEng.* About 1885 Schneider was with the Western BNCo. When George W. Goldsworthy, Sr. left WestBNCo to form Republic BNCo in 1905, Schneider and others, joined him in the new company. He is the possible engraver of the Sandusky, Fremont & Southern Railway Co. bond.

SCHNEIDER, James A. *LtEng.* He was employed at American BNCo from 14 Feb. 1929 until 21 May 1931.

SCHNEIDER, Walter. *Eng.* Sometime after 1871 he was engraving for the Western BNCo. Later he worked independently.

SCHOCK, Harold. *Eng.* He was employed at Dreka Co., Butler Thomas Co. and Elliot BNCo.

SCHOEN, Harry A. *Des.* He was employed at American BNCo from 1915 to 1965.

SCHOFF, Stephen Alonzo. *PtEng.* b. Danville, VT 16 Jan. 1818, d. Brandon, VT 6 May 1905. At 16 he began his apprenticeship under Oliver Pelton and later with Joseph Andrews in Boston. In 1840, with Andrews, he went to Paris to study painting with Paul Delaroche; he returned two years later with a collection of prints. During the 1850s and 1860s Schoff was working in Boston for John Lowell who made greeting and advertising cards. As an engraver, Schoff "had entered a respectable profession, one that offered less glory than the painter's, but probably more security" (Potpourri [5]).

On 28 Aug. 1869 Schoff applied to the Bureau of Engraving and Printing. After submitting examples of his work he was offered a position at $50 per week. He reported to the BEP on or about 25 Oct. 1869. Schoff created the art work of *Liberty* for the $20 USN, H703, and engraved *Justice* on the $500 USN, H1322.

SCHOFIELD, Louis Sartain. *PEng & PtEng.* b. Paoli, PA 4 Aug. 1868, d. ca. 1938. He was the grandchild of John Sartain and studied engraving with Emily Sartain. He began his apprenticeship at the BEP on 3 Jan. 1888; he was named an engraver on 14 June 1893 at $1,000 per year. A letter dated 2 Sept. 1893 from the BEP to the U.S. Treasury Department said that unless there was a salary increase, the government would loose a talented engraver. Schofield engraved almost 100 postage stamps. He retired on 31 March 1932.

SCHRAGE, William Karl. *Des.* b. Baltimore, MD 20 Nov. 1896, d. Washington, DC 24 January 1964. For 12 years he was the designer-foreman of the Maryland Litho Co. in Baltimore; the next seven years he worked as a commercial artist. U.S. government work began in 1918 with the Geological Survey and other offices. His career at the BEP began on 1 July 1936 where he designed and modeled about 100 postage stamps. Schrage was employed at the BEP at the time of his death on 24 Jan. 1964. He created the designs for Allied Military Currency: Austria SB1-13 & Italy SB42-63.

SCHROEDER, _____. *Eng.* He engraved for Rawdon Wright & Hatch ca. 1820, and is credited with a portrait of the Duke of Richmond.

SCHULTZ(E), Charles L. At one time he was the Superintendent of Engraving for the Prussian Government. After Schultz came to the U.S. he formed a partnership with Joseph A. Rueff in 1881; they remained in business until 1909.

SCHULTHEIS, Anthony. *Trans.* He was employed at Hamilton BNCo ca. 1935.

SCHUSSELE, Christian. *Art & PEng.* b. Alsace 16 April 1824, d. Merchantville, NJ 21 August 1879. He studied in Strasbourg and Paris. Before and immediately after he arrived in the U.S. in 1848 he worked as a chromolithographer. Schussele engraved for Bald, Cousland & Co. From his painting of Lincoln's cabinet, the heads of Seward and Stanton were engraved by Robert Whitechurch for U.S. postage stamps. From 1868 until his death, Schussele was professor of drawing at the Pennsylvania Academy. He is said to have engraved *Agriculture*, on the Republican Valley RR cp. bd.

United States Obsolete Bank Notes

Agriculture, Bank of Lebanon, NH $100.
Boy and Dog (art by C.S.; eng. W. Shirlaw), Shawanese Bank, Elizabethtown, IL $5.
The Rescue (art by C.S.; eng. J. Bannister), State of SC $10.
The Sea Side (art by C.S.), Continental Bank, Boston, MA $5.
The Yarn (art by C.S.; eng. L. Delnoce):
Farmers' and Merchants Bank, DC $1.75;
Citizens' Bank of Louisiana, $5;
Lincoln County Bank, Wiscasset, ME $2.
Wagon at the Station (art by C.S.; eng. T. House), Humboldt Bank, Naperville, IL $2.

Foreign Bank Notes

Colombia

Spinner Wheel (art by C.S.; eng. O.G. Hanks), 5 pesos, PS819.

Mexico

Arts & Science (art by C.S.; eng. W.W. Rice), 1 peso, PS120.
The Capstan (art by C.S.; eng. F. Girsch) 1,000 pesos, PS387.

SCHWAB, _____. *LtEng & ScrpEng.* He was employed at Republic BNCo.

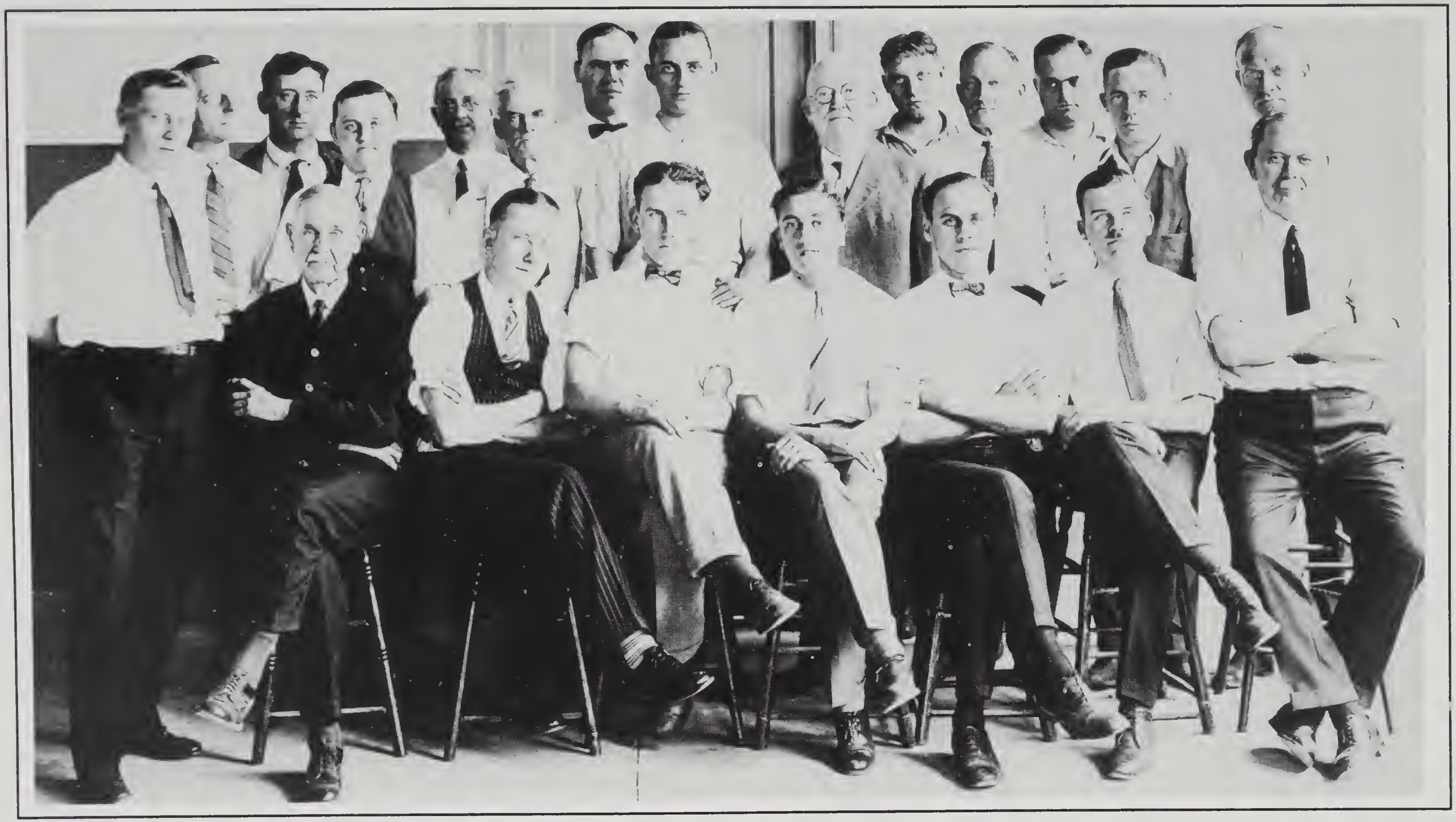
SCHWARTZWALD, Gustav. *Inv, Lith. & Pr.* On 23 May 1877 an agreement was signed by this man and ABNCo. For $300, Schwartzwald agreed to design a machine and furnish materials "for the perfect exemplification of (his) process of color printing and upon completion...allow the American Bank Note Company the exclusive use...in such places and upon such terms as may be then agreed upon" (Shafer, Aug. 1988, p. 12). A trial example of this process is known; it bears the ABNCo logo. There was subsequent correspondence, but, there was no ultimate agreement.

Schwartzwald entered into an agreement with printers Snyder & Black to demonstrate his color-printing process. This was not exclusive because there "survives a group of printed testimonials from various companies which had apparently employed his inks to good advantage. These are dated 1905 and 1906" (Shafer, Aug. 1988, p. 12).

A letter from the U.S. Secret Service indicates that Schwartzwald sent examples of his color-printing process to the U.S. Treasury Department; the examples were returned. At one time Schwartzwald had offices at 181 Front St., NYC.

A handwritten formula for an ink for printing and typewriting has survived: "Glucose, Glycerine, Magnesia, Acidine color. Mix Glucose with a trifle of Glycerine, add some acidine color, rub it in a mortar, then add a trifle magnesia to it. The preparation can be thinned by water" (Shafer, Aug. 1988, p. 22).

SCOT, Robert. *LtEng.* b. (Edinburgh, Scotland) 2 Oct. 1745, d. Philadelphia 2 Nov. 1823. He came to the U.S. ca. 1778, probably from England; from that time and until 1782 Scot was engraver to the State of VA. By 1783, perhaps as early as mid-1781, he moved to Philadelphia, where "it is said ... he engraved the plates for bills of exchange and cut the office seals used by Robert Morris, Superintendent of Finance" (Pessolano-Filos 107). Scot did commercial engraving and advertised in the *Independent Gazette* as an engraver and copperplate printer.



Security Banknote Co. engravers ca. 1949. Standing, left to right: James F. Douglas, Harry Zimmerman, William McNally (plant engineer), Walter Johnhe, Otis Thompson, Mr. Stinger (vault custodian), Wendell Anderer, Jules Bruggerman, Thomas A. Bradley, Augustus Stuzzenberger, Charles Fry (messenger), Joseph Anderer, John Flanagan, and William Moninger. Seated, left to right: Mr. Collar (vault custodian), Joseph McLaverty, Vincent Reese, Louis A. Baldino, William Kern, Robert Reed, and James A. Bradley.

Examples of his work appear in *Ree's Encyclopaedia*. Scot also advertised himself as the "Late Engraver to the State of Virginia." In 1793 he was appointed Engraver to the U.S. Mint; he remained there until his death. In 1797 Scot was listed in the Philadelphia Directory as "Engraver and Copper-Plate Printer." Toppan (p. 5) states that the earliest Bank of North America notes dated 179_, with no imprint, were probably executed by Robert Scott (sic). Circulating notes personally signed by Robert Morris (1781-1782) and honored at the Bank of North America were engraved by Scot (Newman 50). Robert Scot is often confused with Robert Scott (b. 1771), a portrait engraver from Scotland.

SCOT, William. On 29 October 1729, along with Anthony Adamson, Scot was accused of counterfeiting.

SEALEY (SEALY), Alfred. *PtEng.* b. NY ca. 1815. d. Canada ca. 1868. He was engraving in NYC from 1838 to the 1850s. From 1858-1860 he was affiliated with Sealey & Smith; in the latter year he joined American BNCo. Sealey was not employed at the BEP, but, was contracted by Spencer M. Clark to engrave portraits. Between 1867 and 1869 Clark engaged Sealey to engrave the following portraits for $500 each: *George Washington*, $1 USN, H5-27; *James Madison*, $5,000 USN, H1435; *Henry Clay*, $50 USN, H928; *Andrew Jackson*, $5 USN H245; *Daniel Webster*, $10 USN H466-468; and *Zachary Taylor*.

United States Obsolete Bank Notes

Bride, The, Summit Bank, Oconomowoc, WI $2.
Everett, Edward, Mount Vernon Bank of the City of Boston, MA $1.
Jefferson, Thomas: Bank of Charleston, VA, $5; York County Bank, PA $10; Fells Point Savings Institution of Baltimore, MD $20.
Pearl, W.E., City Bank of Nashville, TN $50.
Revere, Paul: The Revere Bank, Boston, MA $1-$500.
Spanish Lady, Kensington Bank, Phila., PA $1.
Taylor, Zachary, Newark Banking Co., NJ $2.

Foreign Bank Notes

Argentina

Saavedra C., 50 pesos, PS507.
The Bride, 50 pesos, PS1503.

Sweden
Eric, King, 100 riksdalers, PS507.
Venezuela
Simon Bolivar, 5 bolivares, P49.

Miscellaneous

Beavers, Beauce Gold Mining & Milling Co. stock certificate (1880).
Edward VII, New Brunswick stamp A8.
Edward VII (eng. with J. Bannister), Newfoundland stamp A15.
Jefferson, Thomas, Jefferson Fire Ins. Co. of Phila., stock certificate.
Revere, Paul: Arts & Crafts Club invitation, 1929; National Revere Bank draft, 1880.
Victoria, Queen, New Brunswick stamp A5.

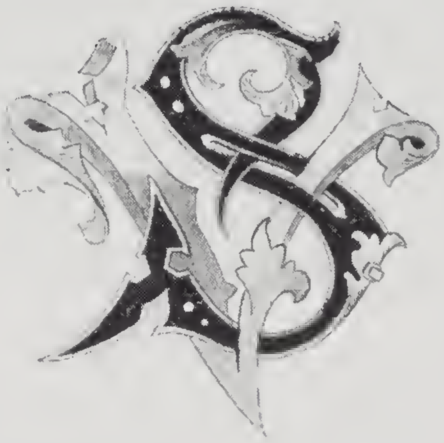
SEBRING, _____. *Eng.* He engraved for Rawdon Wright & Hatch ca. 1813.

SECURITY BANKNOTE CO. T.A. Bradley founded this company in 1884; he and engraver Isaac Thompson headed the firm. The company was incorporated in NJ in 1899 and in PA in 1908 with an office and plant in Philadelphia and an additional plant in Pittsburgh. In 1942 SecBNCo absorbed Republic BNCo. The Hamilton Bank Note Engraving & Printing Co. liquidated in 1948; the SecBNCo acquired the company's engraved plates in 1951. In 1957 a merger with the Columbian BNCo created the Security-Columbian BNCo. This company prepared bank notes for Ethiopia, P12-17, S. Vietnam, P11-14 and Laos P1-5.

SECURITY-COLUMBIAN BANKNOTE CO. This Philadelphia company, organized in 1957, with plants in Philadelphia, Pittsburgh and Chicago, is a division of the United States BNCorp. This company has prepared stamps for Costa Rica, Paraguay, the Philippines and Nicaragua.

SEEBECK, Nicholas Frederick. b. Germany 19 Feb. 1857, d. NYC 23 June 1900. From 1880-1884 he was listed as a stationer in NYC. In the latter year he became Secretary of the Hamilton BNCo and for one year, 1893, was president. He obtained contracts from the governments of Ecuador, Nicaragua and El Salvador for which they paid nothing. Seebeck, under the name of the HBNCo acquired all the remainders and had the option to print more for collectors.

SEILING, Vernon. *LtEng & ScrpEng.* b. ca. 1926. After doing commercial engraving in NYC, including work for Tiffany, he joined American BNCo in 1969 and remained until the company was purchased by USBNCorp in 1990. Then, Mr. Seiling was engaged by the Bank Note Corporation of America who occupied the facilities previously used by ABNCo. Mr. Seiling designed and engraved the attractive "VS" on his personal stationery.



SELLERS, William P. *Pr.* b. England ca. 1725, d. Philadelphia Feb. 1804. After his apprenticeship in London he worked there until 1764 when he came to Philadelphia. With David Hall a partnership, Hall & Sellers, was formed; the firm continued with sons David and William after David Hall died in 1772. (See Hall & Sellers.)

SENNETT, Richard C. *Mod.* This modeler has done work for both the Bureau of Engraving and Printing and American BNCo. (See U.S. stamps for 1980s.)

SERGEANT, _____. *Eng.* He engraved for Rawdon Wright & Hatch ca. 1812.

SERZ, John. *Eng.* b. Bavaria ca. 1810, d. Philadelphia ca. 1878. He came to the U.S. about 1848. After living in NYC in 1849 and 1850 he moved to Philadelphia where he engraved bank notes.

SESSLER, Arthur. *LtEng.* He was employed at the British American BNCo and the Republic BNCo.

SEYMOUR, George E. *Pr & Typ.* He was employed at American BNCo in 1859.

SEYMOUR, George H. *LtEng.* b. 1852, d. 12 Feb. 1943. He was employed at American BNCo as early as 1868; he retired on 9 June 1916. Seymour was the son of a siderographer at ABNCo, George E. Seymour perhaps.

SEYMOUR, Joseph H. *Eng.* He was employed by Isaiah Thomas at Worcester, MA as early as 1791. It is uncertain if he engraved bank notes.

SEYMOUR, Samuel. *Eng.* He was in Philadelphia in 1808 and was living in 1820. Seymour probably came from England.

SHAFER, L.A. *Art & Des.* This designer did work for American BNCo. He created the art for these two stock certificates: *Airplane* (eng. C. Dawson), Transcontinental Air Transport (1928); *Train* (eng. by L. Delnoce, Jr., Southern Sugar Co. (1927).

SHARPE, Melvin. *LtEng.* He studied at the Pennsylvania Academy of Fine Arts. During his career he worked for American BNCo and the Bureau of Engraving and Printing, the latter from Jan. 1905 until 30 June 1920.

SHARPE, Ronald C. *Des & Mod.* b. Atlantic City, NJ 3 Aug. 1935. Art studies include the National Art Academy, under John Crandell and John Chapman, Corcoran Gallery School of Art under Messrs. Wood and Giampoli, Catholic U. evening classes, Dept. of the Interior, and Maryland School of Art & Design. In Sept. 1968 Sharpe began his seven-year apprenticeship at the BEP. His designs include the windmill stamps U.S., A1127-1131, certificates, military commissions, I.D. cards, and souvenir cards.

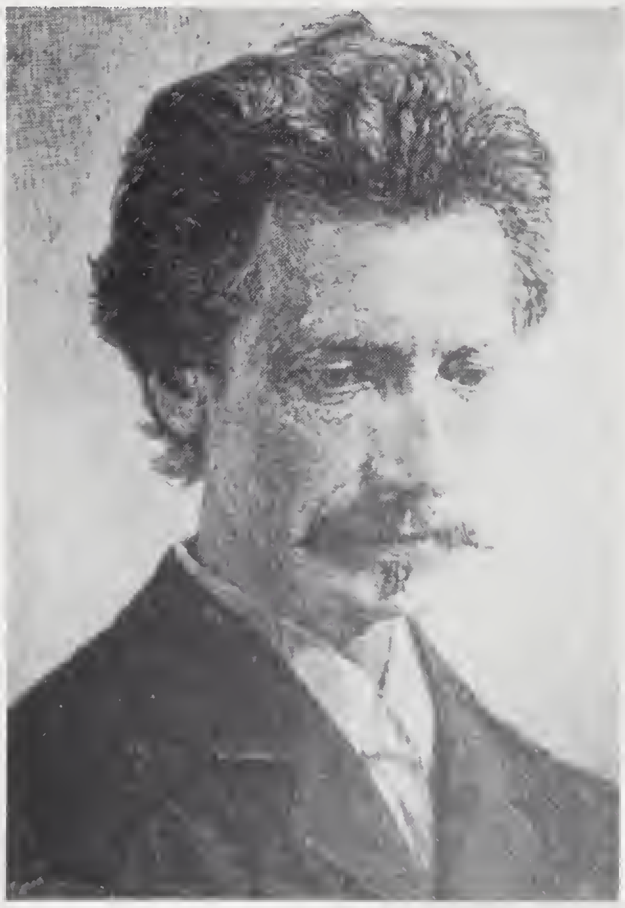
SHARPLESS, Howard Franklyn. *LtEng & ScrpEng.* b. Washington, DC(?) 12 July 1918. He studied at the Corcoran Gallery School of Art and the Columbia School of Commercial Art. Sharpless went to the BEP as a skilled helper on 27 Dec. 1937. His apprenticeship as lasted from 4 Apr. 1948 to 4 Mar. 1953. Mr. Sharpless retired on 30 March 1980.

SHEAFER, L.A. *Des.* He is the designer of *Railroad Station* (engraved by A. Vogel), which appears on bonds for: Morris & Essex RR Co. (1929) and Seaboard All Florida Rwy (1925). Six of his subjects were in the sale of American BNCo Archives (Christie's Nov. 1990).

SHERMAN, _____. *Des & Mod.* He modeled the arms for Illinois, Kansas, Missouri, Ohio, Tennessee & Wisconsin at American BNCo in the 1860s. The *Aboriginal* (eng. C. Burt) on Kruskal & Kruskal Inc. stock certificate (1926) is Sherman's work.

SHERMAN, Dennis H. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s and as late as 1951.

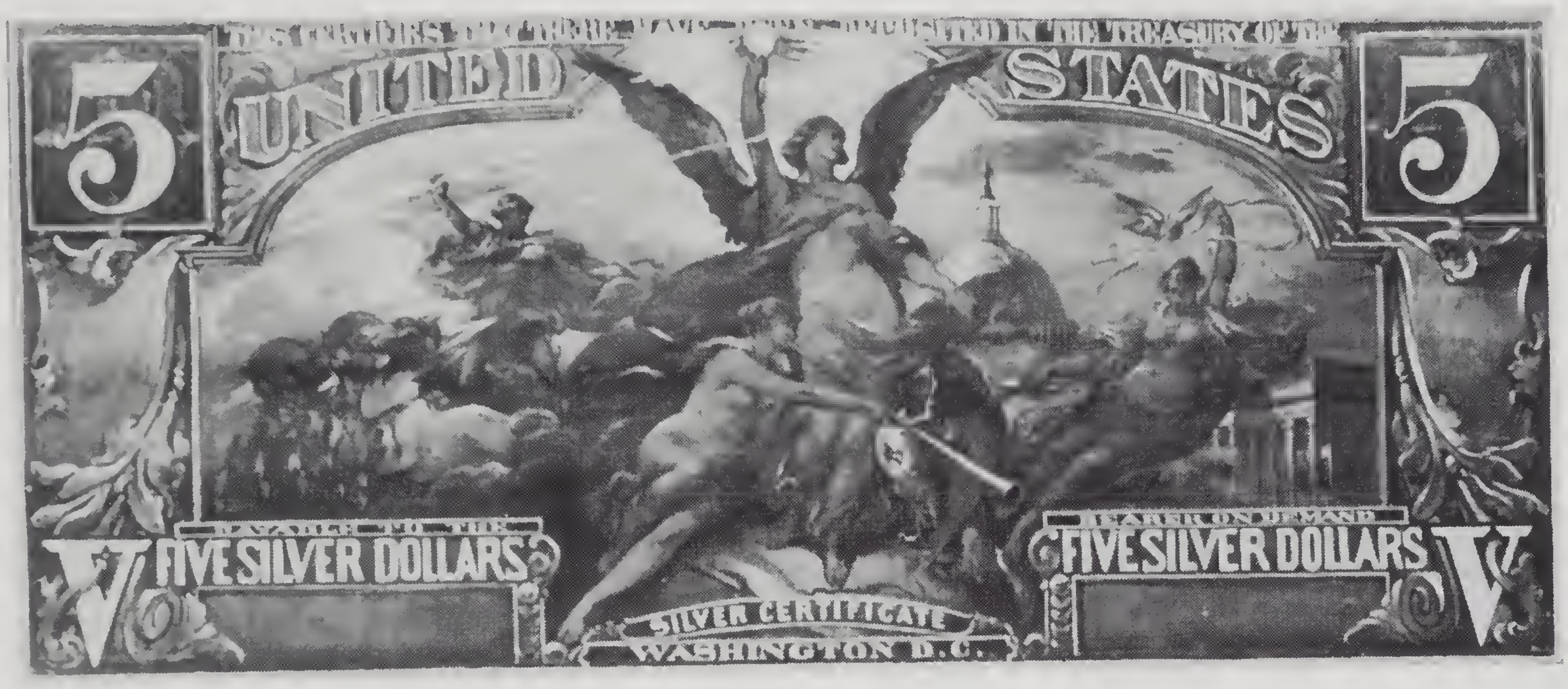
SHERMAN, George E. *Eng & PlPr.* b. CT ca. 1811, d. ca. 1861. In 1837 he was with Stiles, Sherman & Smith. From ca. 1839 until 1853 he was affiliated with Sherman & (John) Calvin and from 1855-1858 he engraved for James R. Burton in New York City.



SHIRLAW, Walter. *Art, Des & Eng.* b. Paisley, Scotland 6 Aug. 1838, d. Spain 26 Dec. 1908. Born of American parents, the family returned to the U.S. in 1841. At age 12 Shirlaw was apprenticed as an engraver to Rawdon, Wright, Hatch & Edson; he attended art school in the evenings. Five years later with $800 in his pocket he decided to devote his life to painting; he soon found it necessary to return to engraving. Shirlaw was employed by the Western BNCo from 1865-1970. In 1870 he travelled to Paris and then to Munich to study painting. By 1877 he was back in the U.S. and by 1880 received modest acclaim. He, along with other muralists, was chosen to decorate the Manufacturers and Liberal Arts Buildings at the Columbia World's Exposition (1892 & 1893). Shirlaw also did illustrations for *Harper's Monthly*. *Blasting* (lithographed), on a check for the Silver Spring Quarry Co., Afton, PA was engraved by this artist.

Shirlaw helped to found the Chicago Institute of Art, where his self-portrait hangs; he was the first president of the Society of American Artists; he was a founder and member of the Water-Color-Etching and Mural Painter's Society; he was a member of the NAD; and he taught at the Art Students' League in NYC. (See *PAPER MONEY* September/October 1984 for a list of murals and paintings by Shirlaw.) The illustrated portrait of Walter Shirlaw was engraved by G. Kruell after a portrait by N. Sarony.

United States Federal Bank Notes



Electricity Presenting Light to the World (des.), $5 SC, H358-360.

Landing of Columbus (eng.), $5 NBN, H274-286. (Four additional versions were engraved by others; see HE 142).

Liberty and Progress (des.), $10 NBN, H540-566.

United States Obsolete Bank Notes

Boy and Dog (art, C. Schussele), Shawanese Bank, Elizabethtown, IL $5.
Cooper, The (art by Darley): Falmouth Bank, MA $100; Commercial Bank, Salem $50.
Indian Girl (eng. with O.G. Hanks), Egg Harbor Bank, NJ $1.
Picking Cotton: State Bank of MS $50; State Bank of TN $5.
Ram Cartridge, The White River Bank, Bethel, VT $5.

Foreign Bank Notes

Canada
Harvest, The Bank of Hamilton $5, PS451.

Mexico
Indian Girl (eng. with O.G. Hanks), 20 pesos PS129.

SHMIDT, _____. *Trans.* (see Amendt.)

SHREMP, _____. *Trans.* (see Amendt.)

SICKLES, Charles. *Mod.* Before 1882 he was the Superintendent of the Modeling Department at the railroad branch of American BNCo.

SIEBERT, F. Louis. *Eng.* He was engraving for Baldwin & Gleason before moving to the New York BNCo. Siebert was employed at American BNCo as late as 1918.

Miscellaneous

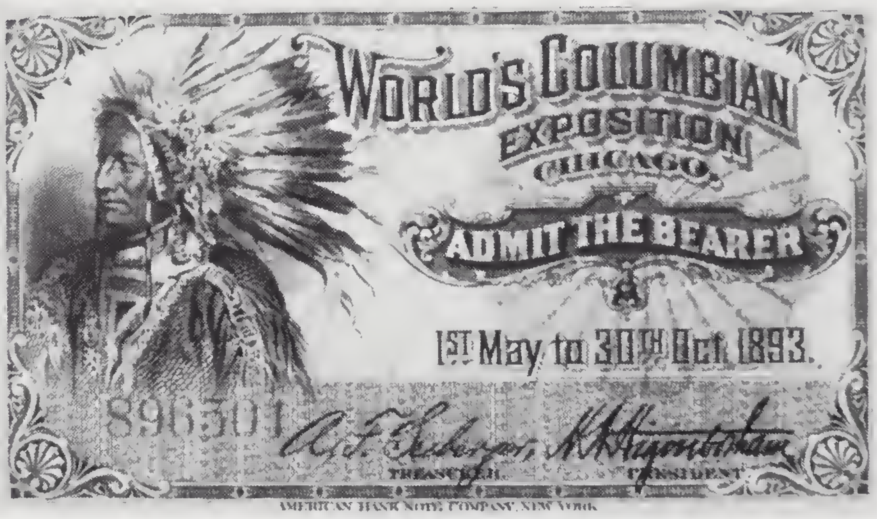
Female Head (finished by R. Savage), Czechoslovakia State cp. bd. (1924).
Gypsy Girl, coupon bonds: Atlantic Fruit & Sugar Co., Cuba Cane Sugar Co., Manati Sugar Co., and Warner Sugar Co.
Navigation (Female Holding Ship & Rudder; finished by R. Savage), Mexico 50 pesos, P702.

SIGGONS, Louis K. *LtEng.* b. Michigan 1855. He joined the Bureau of Engraving and Printing on 27 April 1903; he retired on 20 August 1920.

SINCLAIR, George. *Eng.* b. 1852, d. 1900. About 1887 he was Superintendent of the Engraving Division at American BNCo; later he was promoted to Superintendent.

SISS, _____. *PEng, LetEng & ScrpEng.* Employed at Republic BNCo, this engraver, among other things, engraved small subjects suitable for bond coupons.

SKINNER, Charles. *PEng & PtEng.* b. 1841, d. 14 March 1932. In the early 1860s he was working as an illustrator of books in New York City. He joined American BNCo in 1864 and moved to the ContBNCo in 1874. Skinner remained with ABNCo after consolidation; he retired on 20 June 1911. The ABNCo seal, the eagle head facing left in an oval, was engraved by Skinner in 1885. His illustrated portrait was engraved by Wesley Jerndal.

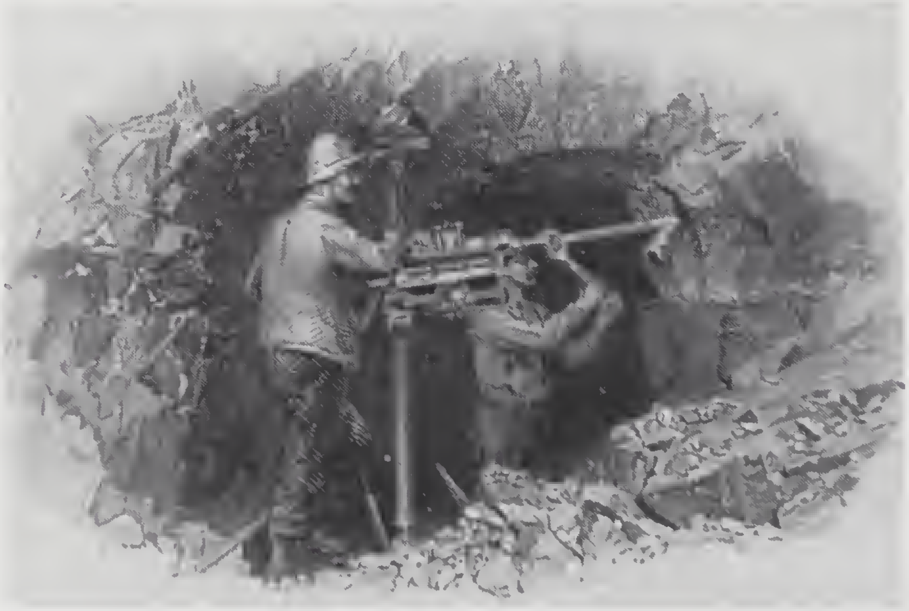


United States

E Pluribus Unum: $20 GC, H827a; $100 GC, H1222; $1,000 GC, H1412; $5,000 GC, H1443.

Fessenden, William P., 25¢ FC, H1559-1567.

Indian, World's Columbian Exposition ticket.



Foreign Bank Notes

Argentina

Allegory No. 2 *(cupid)*, 1 peso, PS767.
Genius of Agriculture (woman with sheaf), 2 pesos, PS768.

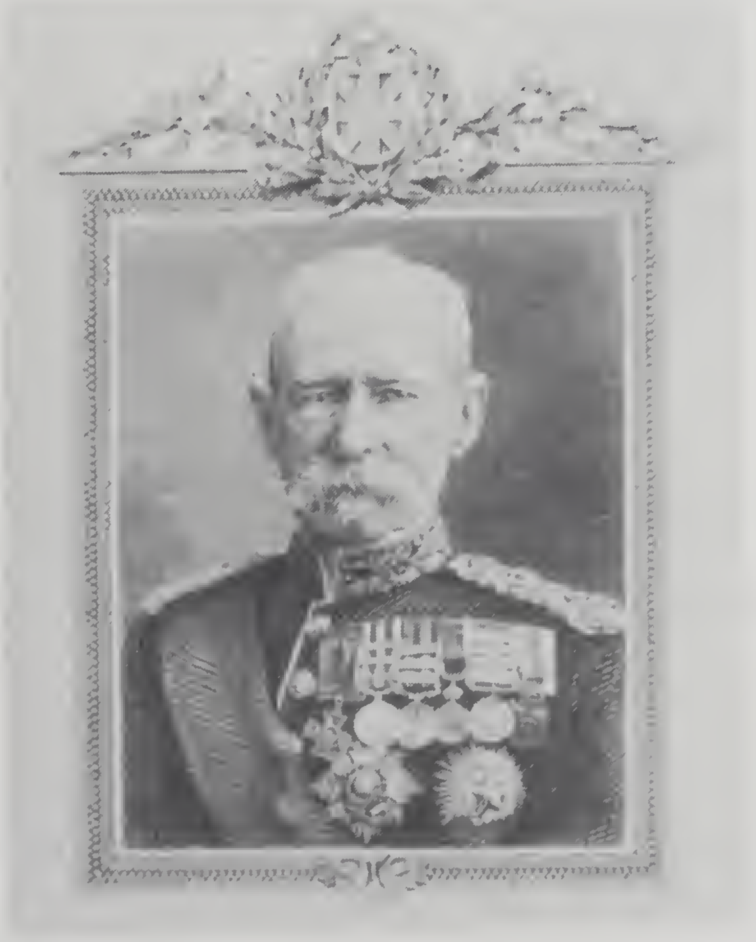
Bolivia

Family (eng. with E. Loizeaux), 1 bol. PS161.
Miner (eng. with E.H. Gunn), 5 bolivares, PS173.

Peasants (eng. with E. Loizeaux), 10 bolivares, PS153.

Foreign Bank Notes
(continued)

Brazil
Allegorical Females, 200 mil reis, P77.
Battle of Riachuelo, 500 mil reis (backs), P83 & P108.
Cavalry (backs): 50 mil reis, P105; 200 mil reis, P72 & P139.
Commerce (woman with caduceus and book), 200 mil reis, P73.
Dom Pedro I Monument, 1 mil reis (back), PA255.
Female and Eagle (eng. with J. Guilfoyle), 10 mil reis, P34.
Under Full Sail, Brazil 500 mil reis, PS650.
Canada
Allegorical Females, Bank of Nova Scotia (Jamaica) $5, PS137.
Bank of Toronto, $50, PS689.
Britannia, $10, PS1432.
Cattle, $100 (back), PS1481.
Cupids, $20, PS1544.
Edward VII, $5, PS1431.
Female, $20, PS154.
Female and Eagle (eng. with J. Guilfoyle), $10, PS1373.
Females (eng. with E. Loizeaux), $20, PS1445.
Genius of Agriculture, Bank of Saskatchewan, $5 (back), (1913).
Juno (eng. with E. Gunn), $5, PS1360.
Lion, St. Stephens Bank, $5, PS1417.
Northwest Rebellion Monument (eng. with E. Loizeaux), $20, PS1089.
Reaper (man & horses) $5, PS1493 & PS1495.
Canada



Roberts, Lord, $1,000, P34A.

Chile
Military General (profile), 2 pesos, P6-9.
Government House, 20 pesos, P18 & P19.
China
Li Hung Chang, PA76-78, P16-18, P32C.
Male portrait, $1, P25.
Pagoda, $10, PA78.
Pagoda Scene, Provincial Bank of Kwangtung Province $50 (back) unissued (1922).
Reception Hall of Bureau of Finance, $50, PS2404.
Costa Rica
Aviation & Chemistry, 2 colones, P184.
Girl with Fruit (eng. with E. Loizeaux), 5 colones, P160.
Ecuador
Cathedral, 20 sucres, PS264 & 100 sucres, PS266.
Monument, 100 sucres, PS128 & 1,000 sucres, PS130.
Ship, 10 sucres, PS125.
El Salvador
Female Working, 2 pesos, PS122.
Greece
Acropolis, 100 drachmai (back), P55.
Allegorical Females, 25 dr. (back) P65.
Guatemala
Nile Landscape (coffee harvesting), 100 pesos, PS182.

Hawaii
Palm Tree, $5, P11.
Government Palace, $5, P11.
Jamaica
Allegorical Females, (Bank of Nova Scotia), $5, PS137.
Mexico
Allegory No. 1 (infant and lyre), 100 pesos, PS479.
Arana, A.A.U., (eng. with E. Loizeaux), 20 pesos, PS392 & 500 pesos, PS395.
Arms of Jalisco 5-1,000 pesos, PS320-328.
Aroused (lion), 50 pesos, PS111.
Banco Hidalgo (eng. with H.P. Dawson), 500 pesos (back), PS310.
Banco Nacional de Mexico, 10 pesos, PS258.
Commerce, 10 pesos, PS403.
Cuauhtemoc Monument, 5 pesos, PS685.
de Torreros, Don Pedro Romero, 1-1,000 pesos, PS264-271 & 50 pesos, PS308.
Female Allegory, 100 pesos, PS364.
Female and Eagle (eng. with J. Guilfoyle), 20 pesos, PS103.
Females (eng. with E. Loizeaux), 20 pesos, PS373.
Genius of Agriculture, 1,000 pesos, PS387.
Girl with Fruit (eng. with E. Loizeaux), 5 pesos, PS298.

Foreign Bank Notes

(continued)

Mexico

Gypsy Girl (eng. with F. Pauling), 5-1,000 pesos (backs), PS101-107.

Juanita, 20 pesos, PS291 (face), 1-1,000 pesos (backs), PS207-215.

Juno (eng. with E. Gunn), 10 pesos, PS372.

Man with Oxen, 5 pesos, PS475.

Mexico (Doña Manuelita Garcia Teruel), 1-1,000 pesos, PS255-263.

Miguel Hidalgo Monument, 5 pesos, PS305.

Mountains & River, 100 pesos. PS364.

Plaza, 100 pesos, PS356.

Queretaro Arms, 5-100 pesos, PS390-394; 1 & 2 pesos, PS397 & P398.

San Marcos Cathedral (eng. with H. Dawson), 5 pesos, PS101.

Ship, 100 pesos, PS433.

Statue of Colon, 10-1,000 pesos (backs), PS244-248.

Supporters No. 1 (griffins), 5 pesos, PS399.

Supporters No. 2 (winged females), 5 pesos (back), PS465.

Two Peasants & Buros (eng. with E. Gunn), 100 pesos, PS324.

Two Republics (two infants), 2 pesos, PS208.

Under Full Sail, 50 pesos, PS470.

Mexico

Water Carrier, 10 pesos, PS339 & 20 pesos, PS123.

Winged Females, 10 pesos, P706.

Nicaragua

Namasique Monument – 1907, 25 pesos (back), P32.

Paraguay

Caballero, General, 100 pesos, PS151.

Humaita Ruins, 500 pesos, P10.

Ox Cart (eng. with E. Loizeaux), 200 pesos (back), P9.

Waterfall & Lake, 100 pesos, P60.

Puerto Rico

Columbus, Christopher (art by Sebastian del Piombo), $5, P11.

Commerce (woman with caduceus and book), 100 pesos (1904).

U.S.S.R.

Globe, 250 rubles, P42A.

Juno, (eng. with E. Gunn), 25 rubles, P40 & PS1248.

Venezuela

Female (Seated) Holding Ship, 10 bolivares, PS226.

Corporate Bonds

Allegorical Females (one with book), Buffalo, Lockport & Rochester Rwy Co. 5% 1st mortgage coupon bond (1904); Union Pacific RR Co. £100, 4% 1st lien and refund. mort. collat. cp. bd. (1905).

Allegorical Figure on Throne, American Power & Light Co., 6% (1916)

Allegory, (eng. with E. Loizeaux), Republic of Brazil.

Arrived: B&O Southwestern Terminal Co. 5% 1st mort. cp. bd. (1892); Des Moines & KC Rwy (1892); Louisville & Nashville Terminal Co. (1896).

Bridge Scene, Poughkeepsie Bridge Co.

Bridge Scene, Suburban Rapid Transit Co.

Commerce (woman with caduceus and book), Chicago and North-Western Rwy Co. 4½% general mortgage cp. bd. (1897).

Cupids: Crystal River Railway Co. (1893); Kansas City and Pacific RR Co. (1890).

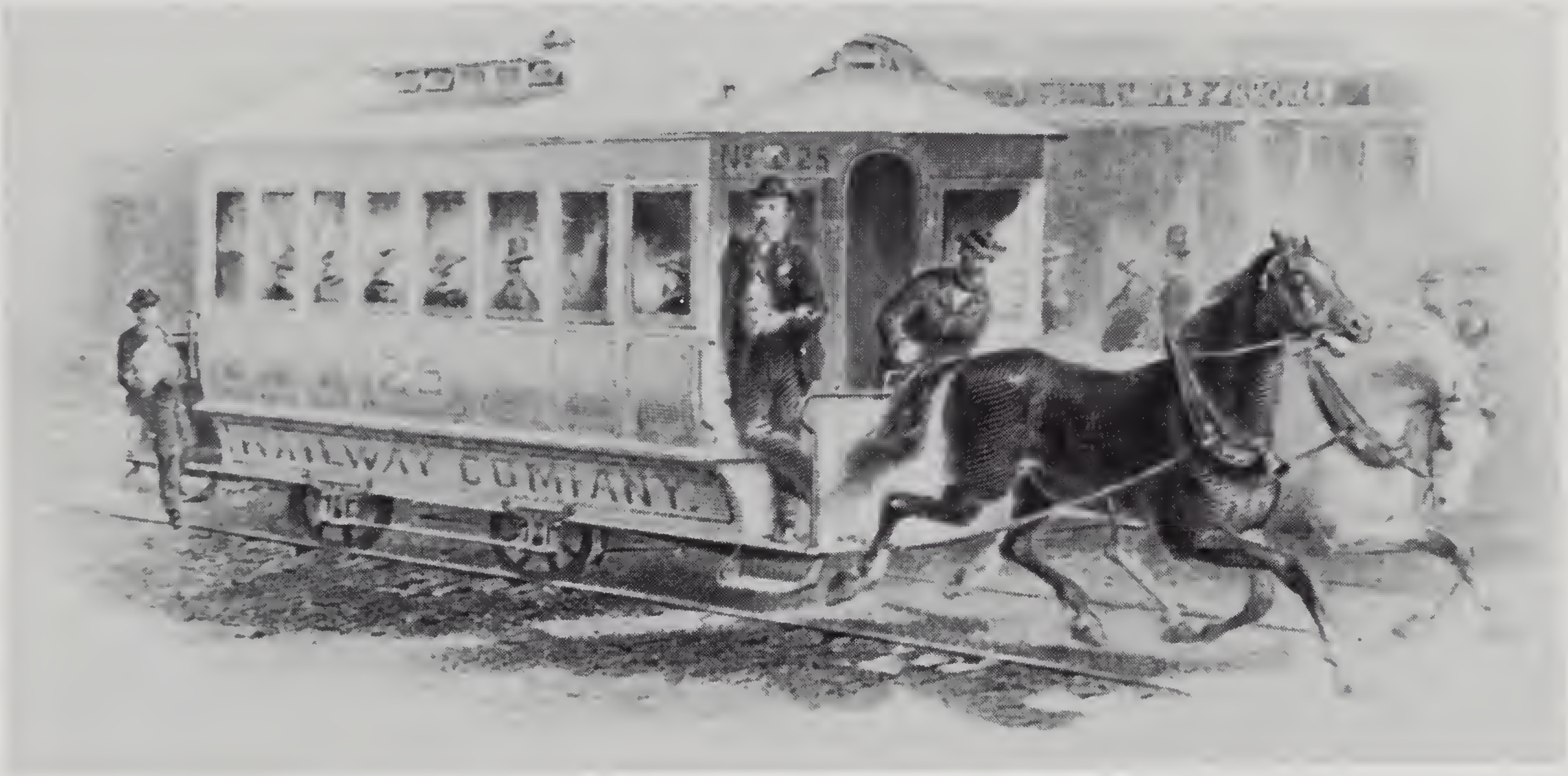
Docking the Ship (eng. with W. Brown), Elder Steel Steamship Co., Inc., cp. bd. (1902).

Easton Bridge, Colorado Bridge Co. (1880).

Electricity (winged boy with light bulb), General Electric Co. 3½% cp. deb. (1902).

Corporate Bonds
(continued)

Female, Male and Locomotive, Sioux City & Pacific RR Co. 3½% (1901).
Females & Dynamo, Georgia Railway & Electric Co. (1909).
Gypsy Girl (small), bond coupons: Republic of Cuba (1925); Rep. of Peru (1926).
Harbor Scene, NY West-Shore Rwy Co.



Horse Car: St. Paul City Rwy Co. (1884); Omaha Street Rwy Co. (1889).

Housatonic Falls (eng. with E. Gunn), CT Power Co. (1906).

Locomotive, Atlantic Coast Line RR Co. of SC. 4% 1st consolidated mortgage (1902).
Locomotive and Work Crew, Central New England RR Co. 4%, 1st. mort. (1911).
Locomotive and Work Crew (eng. with W. Brown), Chicago & Northwest Equip. Trust (1912).
Locomotive and Work Crew (eng. with E. Gunn), Chicago, Milwaukee & St. Paul Rwy. 4½% mort. (1913).
Locomotive and Work Crew, San Diego & Arizona Rwy. Co. 5%, 1st. mort. (1917).

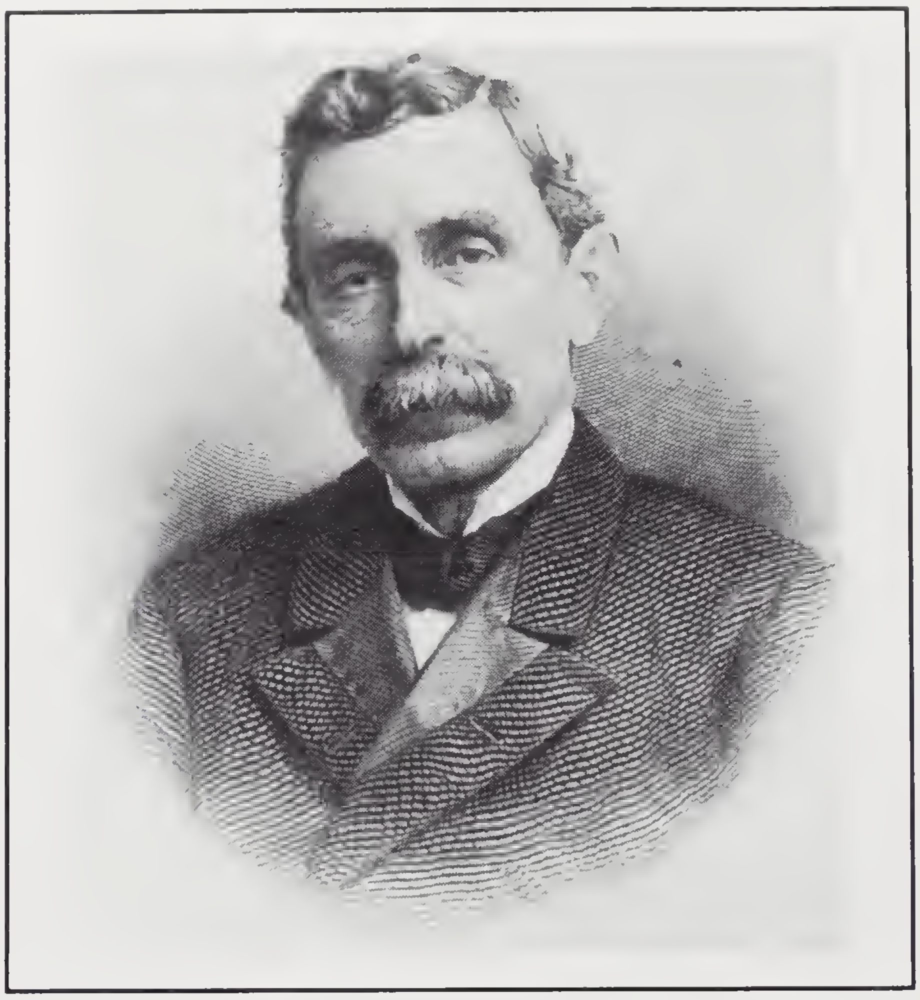
Manufacture & Transportation, Gould Coupler Co. (1925); Lorain Steel Co. (1898), both cp. bds.
Man with Light Bulb, Central Indiana Power Co.
Men and Railroad Car, Lehigh Coal & Navigation Co. 4% Series B (1898).
Mikasa (battleship), Japanese 6%, Sterling Loan 1904-1911.
Mining Scene, Clearfield Bituminous Coal Corp. mort. (1911).
Mining Scenes (for coupons; eng. with G. Hanweber), Kennecott Copper Corpporation; Phelps Dodge Corp. (1937).
Mount Fujiyama, as preceding.

Navigation (two women; eng. with E. Loizeaux), Hamburg-American Line 6½% 1st mort. cp. bd. (1925).
New York & Brooklyn Bridge, Brooklyn Wharf & Warehouse Co. (1895); Leavenworth Terminal Rwy & Bridge Co. (1893); New York & East River Gas Co. (1895).
Nile Landscape (coffee harvesting) Arizona & New Mexico Rwy cp. bd. (1883).

Plaza Hotel (eng. with E. Loizeaux), Plaza Operating Co. (1906).

Railroads (man and woman), U.S. Steel Corp. $1,000, 5% cp. bd. (1901).
Railroad Depot (eng. with W. Brown), Beech Creek Extension RR Co. 4% (1905).
Railroad Depot, B&O Southwestern Terminal Co. 5% (1892).
Railroad Depot, C&O Rwy. Co. 4½% gen. mort. cp. bd. (1892).
Railroad Workers, Lehigh Coal and Navigation Co. 4% fund. & impr. cp. bd. (1898).
Railroad Yard, Atchison, Topeka & Santa Fe RR Co. 4% (1889).

Corporate Bonds
(continued)



Roberts, George B., Philadelphia, Baltimore & Washington RR.

Ship & Locomotive, NY Central & Hudson River RR Co. 3½% reg. MI Cent. collateral (1898).
Ship, Bridge & Train, Carolina Central RR Co. 4% 1st consol. mort. cp. bd. (1898).
Ships, Industry & Train, Astonia & Columbia River RR Co. (1896).
Supporters (cupids), Erie T&T Co. (1890).
Surveyor, Crew & Locomotive, Atchison, Topeka & Santa Fe Rwy 4% (1910).
Train (eng. with E. Gunn), Atchison, Topeka & Santa Fe Rwy Co., E. OK Division 4% (1903).
Train Arriving (eng. with W. Brown), St. Louis & San Francisco RR Co. New Orleans ext. 4% collateral coupon bond (1902).

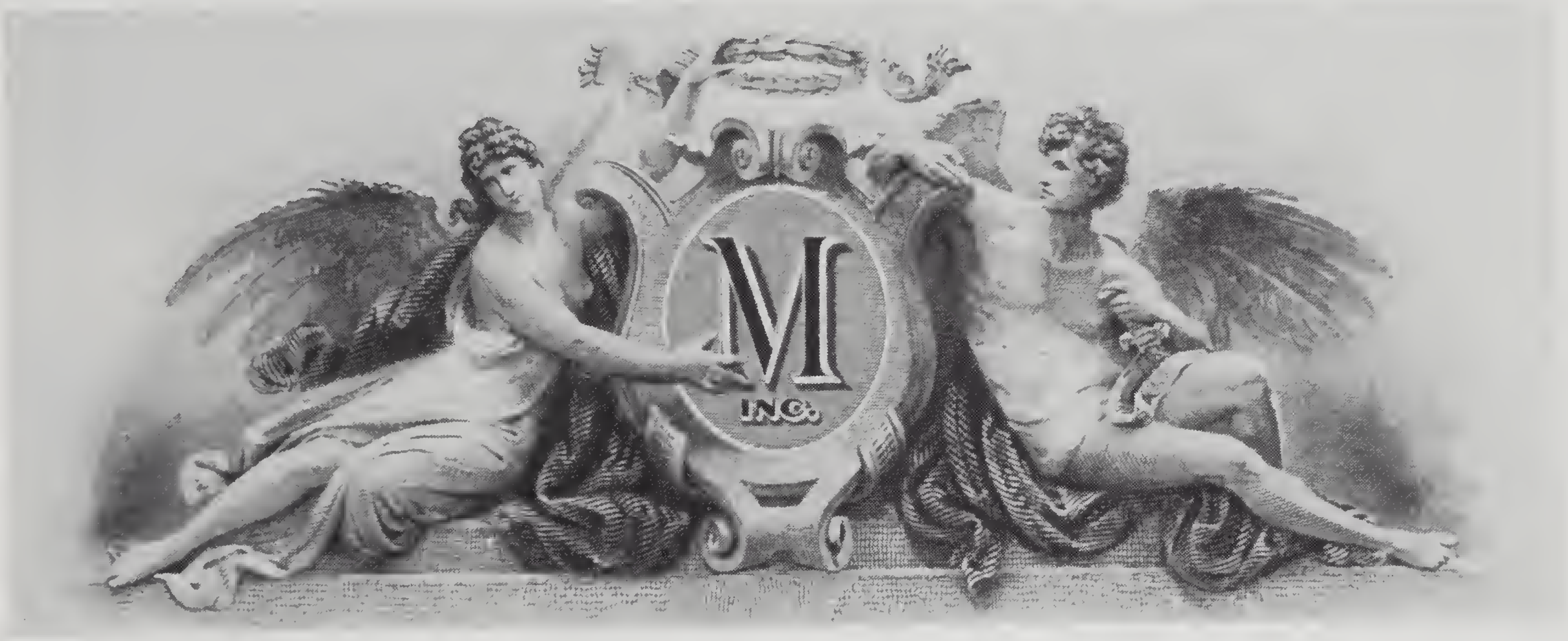
Stock Certificates

Allegorical Figure (seated), Chicago Nipple Mfg. Co. (1909).
Allegorical Figure (seated), Public Service of Northern IL (1909).
Allegory, American Hardware Co. (1901).
Allegory, The Fair. (1895).
Arms of New England, New England T&T Co. (1883).
Beavers, Manhattan Trust Co. (1888).
Boats and Bridge: NY Consolidated RR Co.; Brooklyn Union Elevated RR Co.
Company Plant, Michigan Stove Co. (1892).
Continental Soldier, Continental Trust Co. of Baltimore (1899).
Docking the Ship (eng. with W. Brown), International Mercantile Marine Co. (1902).
Edward VII, King (full-length), King Edward Silver Mines (1906).
Females & Dynamo, NY Transportation Co.
Industrial Power: New York Transportation Co.; Virginia Rwy & Power Co.
Industrial Transportation, Ogdenburg & Lake Champlain Rwy Co. preferred stock.
Justice (with two globes), Continental Can Co., Inc.
Lumbermen (2) Sawing Log, S.D. Warren Co. (1908).
Manufacture & Transportation, Gould Coupler Co. (1925).
Mercury, Eagle & Industry, American Hardware Co.
Miners (eng. with E. Gunn), Montgomery Shoshone Consolidated Mining Co. (1903).
Mining Scene, North Butte Extension Copper Mining Co. (1904).
Mountainside, Hite Gold Quartz Co. (1881).
Stable Car, Stable Car Co. (1889).

Stock Certificates

(continued)

Statue of Liberty, Liberty National Bank of New York (19__).
Traction Cars: New Orleans City RR Co.
Train in Station (eng. with E. Gunn), Iowa Central Rwy Co.
Trains at Overpass, Cleveland, Cincinnati, Chicago & St. Louis Rwy Co.
Trolley Cars, Troy City Rwy. (189_).
Under Full Sail: Pacific Transit Co. 1929 and Marancha Corp. (1933).
U.S. Wood Vulcanizing Co. Plant (1883).
White Rock Symbol (nymph at spring), White Rock Mineral Spring Co. (1925).
Winged Figure with Winged Wheel, Interborough Consolidated Corp. (1903).



Winged Man & Woman: Durant Motors (1924); Willys-Overland (1924); United Traction Co. (As the illustration with the "M" indicates, this vignette was used for other companies.

Stamps

Peru
Bolognesi, 1¢, A36.
School of Medicine, 20¢, A41.

United States
(See stamp list for years 1875, 1882, 1890 & 1893.)

Miscellaneous

Arms of Oregon, use uncertain.
Eagle's Nest, Third NB check (1887).

Pagoda Scene, Jones Bros. Tea Co.

Riggs National Bank Building (eng. with E. Gunn), bank checks.
View of Amsterdam, Netherlands Life Insurance Co. policy (1895).

SLAGHT, Charles. *PlPr.* After serving as a B-17 gunner during WW II he began his apprenticeship at Security BNCo. In 1950 Mr. Slaght moved to the Bureau of Engraving and Printing where he was employed until 1982 when he retired. Charles Slaght is the father of Gary J. Slaght.

SLAGHT, Gary J. *LtEng.* b. Philadelphia, PA 28 July 1950. Following his education in Philadelphia Mr. Slaght began his art studies at Montgomery College, Maryland U. and the Maryland School of Art & Design. He has a degree in advertising design. Slaght joined the BEP on 23 Feb. 1973 and served his apprenticeship under Frank Sharpless and Albert Saavedra. Mr. Slaght was named an engraver in Feb. 1980. His engravings appear on a variety of work including White House invitations and over 100 postage stamps. At one time Mr. Slaght drove motorcycles on the flattrack race circuit.

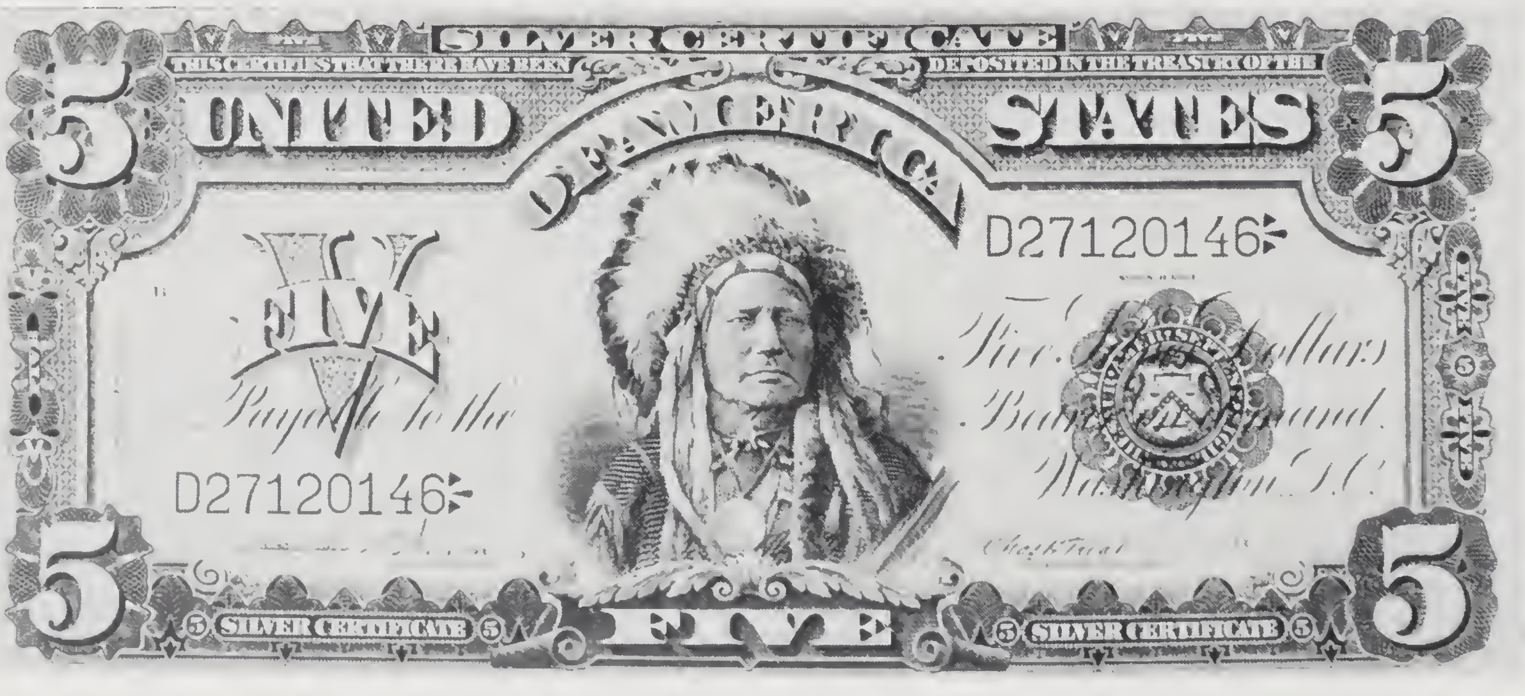
SMILLIE, David. *LtEng.* He was employed at American BNCo in the early 1860s.

SMILLIE, David J. *LtEng.* b. ca. 1850. In 1873, this nephew of James Smillie was engraving for the Continental BNCo. He engraved $2, $5, $10 & $20 stamps for the United States Department of State.

SMILLIE, George Frederick Cumming. *PEng & PtEng.* b. New York City 22 November 1854, d. Washington, DC 21 Jan. 1924. This prolific engraver studied at Cooper Union and the National Academy of Design in NYC; he also studied under Alfred Jones and his uncle, James Smillie. G.F.C. Smillie was employed at American BNCo from 1871-1887. At 17, in Oct. 1972 he completed his first security engraving, *The Reapers.* On 19 Apr. 1887 he joined the Canada BNCo; he returned to NYC on 7 Mar. 1888 to work for the Homer Lee BNCo. (See Homer Lee for portrait by Smillie.) From Jan. 1890 until early 1894 he engraved for the Hamilton BNCo and the Western BNCo. Smillie joined the Bureau of Engraving and Printing as Chief Engraver on 8 Mar. 1894 at $6,000 per year. Fred, as he was called, retired from the BEP in 1922 and returned to ABNCo. He kept a diary of his work that includes a list of about 300 portraits and 135 vignettes.

United States Federal Bank Notes

Cleveland, Grover: $20 FRN, H848 & H849; and $20 FRBN, H850.
Eagle of the Capitol: $1 SC, H47-58; all small-size $1 notes.
Electricity Presenting Light to the World, $5 SC, H358-360.
Grant, Ulysses S., $50 GC, H1040-1042a.
Hamilton, Alexander: $1,000 GC, H1423 & H1424; $1,000 FRN, H1429; and all small-size $10 notes.
Hillegas, Michael (portrait by A.M. Archambault), $10 GC, H605-611a.
Knox, John, $100 NBN, H1184-1206a.
Labor, Plenty, America, Peace & Commerce, $100 FRN (back), H1244 & H1245.
Lewis and Clark, $10 USN, H483-491.
Liberty and Progress, $10 NBN, H540-566.
McKinley, William, $10 NBN, H540-566.
Mechanics and Navigation, $50 NBN, H987-1012.



Running Antelope, $5 SC, H361-371.
Science Presenting Steam and Electricity to Industry and Commerce, $2 SC, H185 & H186 & $2 SC, H187-196.
Sherman, John, $50 NBN, H987-1012.
Union and Civilization, $20 NBN (back), H773-784.
Wilson, Woodrow, $100,000 GC, H1498.

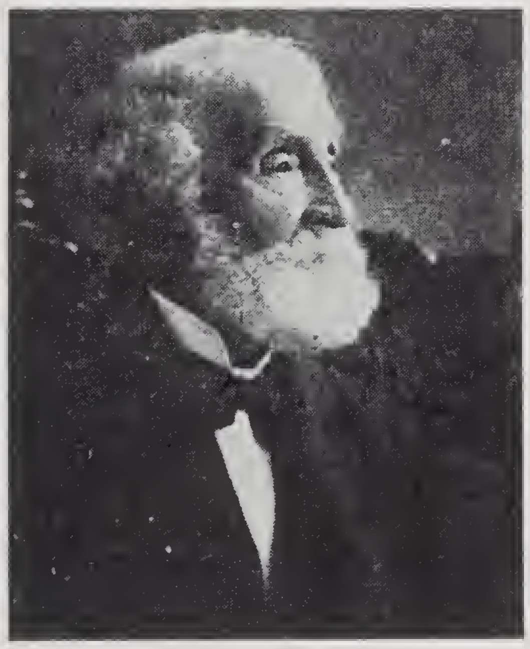
Military Payment Certificates

Ceres (based on *Antique Poesy* by J. Lefebvre, image reversed): $10, Series 521, S-B45; $10 (back), Series 661, S-B87.
Female, $5 (back), Series 521, S-B44.
Female, $10, Series 541, S-B52.
Liberty, $1, Series 521, S-B43.
Meditation, $5, Series 661, S-B86.
Union and Civilization, $10, Series 661, S-B87.

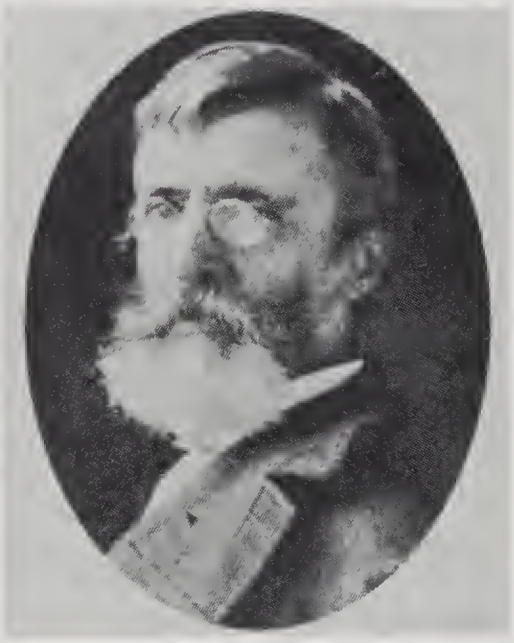
James Smillie

G.F.C. Smillie

William M. Smillie



William C. Smillie



James D. Smillie

Walter Smillie

United States Bonds

Cleveland, Grover, $500 registered postal bond & $50 registered postal bond coupon, both done in 1910.
Liberty, on Second Liberty Loan & Third Definite Bond.
Lincoln, Abraham, $100 postal bond coupon.
Torch & tailpiece on $50, $500, $1,000, $5,000 & $10,000, all done in 1919.
Woman and Children, $1,000, HX188D.

The following official portraits were engraved at the Bureau of Engraving and Printing.

Presidents

Cleveland, Grover.

Grant, Ulysses S. (lg.)

Harding, Warren G.

McKinley, William (lg. & sm.).

Roosevelt, Theodore (lg. & sm.).

Taft, William H. (lg. & sm.).

Wilson, Woodrow (lg.; first & second inaugural).

Vice Presidents

Fairbanks, Charles W.
Hobart, Garret A.
Marshall, T.R.
Stevenson, Adlai E.

Secretaries of the Treasury

Carlisle, John G.
Crawford, William H.
Fessenden, William P.
Gage, Lyman J.
Gallatin, Albert.
Glass, Carter.
MacVeagh, Franklin.
Manning, Daniel.
McAdoo, William G.
Shaw, Leslie M.

Secretaries of Agriculture

Gregory, T.W.
Knox, P.C.
McKenna, J.W.
Moody, W.H.
Morton, J.S.
Wickersham, G.W.
Wilson, J.

Secretaries of Commerce

Alexander, J.W.
Metcalf, V.H.
Nagel, C.
Redfield, W.C.

Secretaries of the Interior

Ballinger, R.A.
Bliss, C.N.
Fisher, W.L.
Francis, D.G.
Hitchcock, E.A.
Lane, F.K.
Smith, H.

Secretaries of Labor

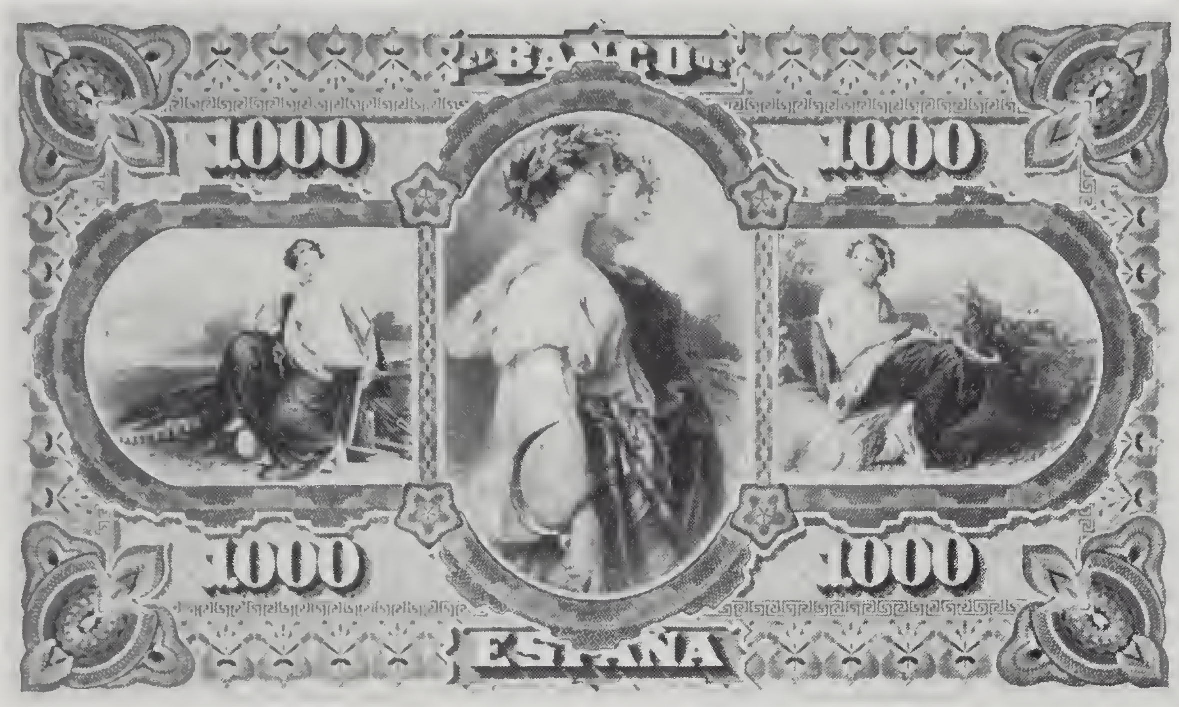
Nagel, C.
Wilson, W.B.

Secretaries of the Navy

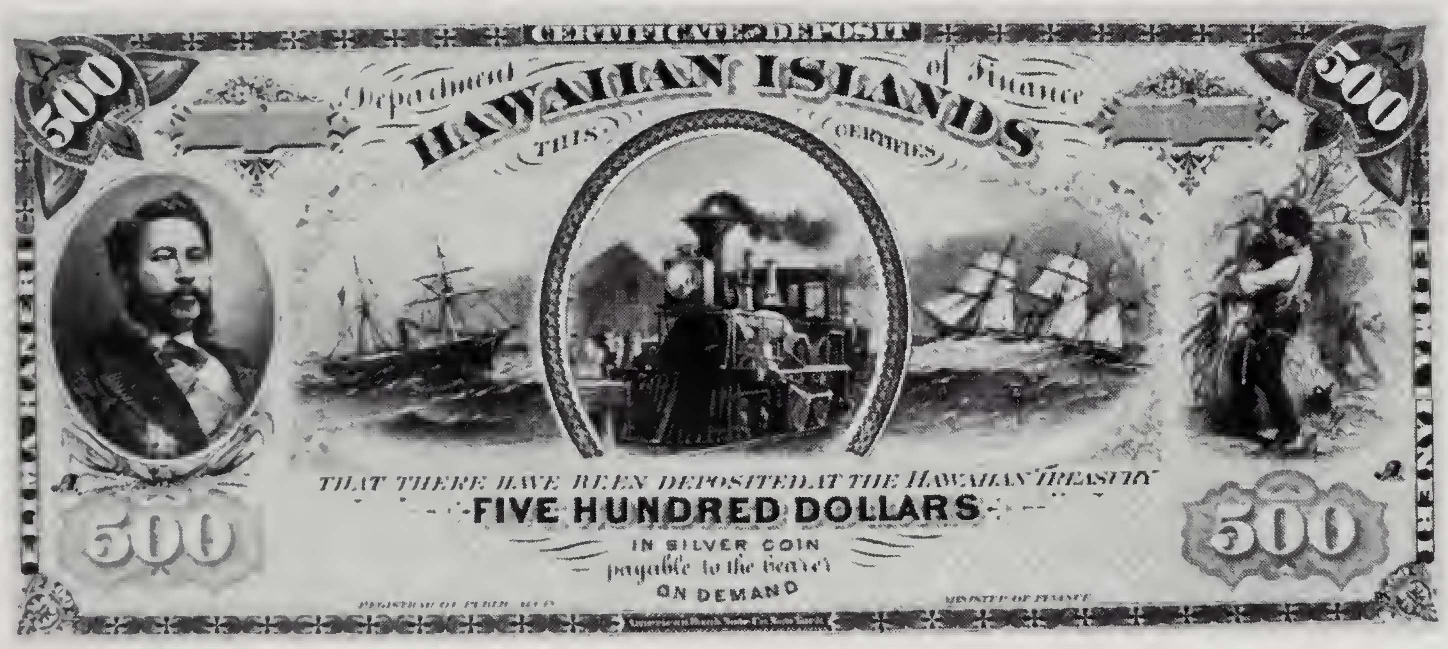
Daniels, J.
Morton, P.
Newberry, T.

Secretaries of State

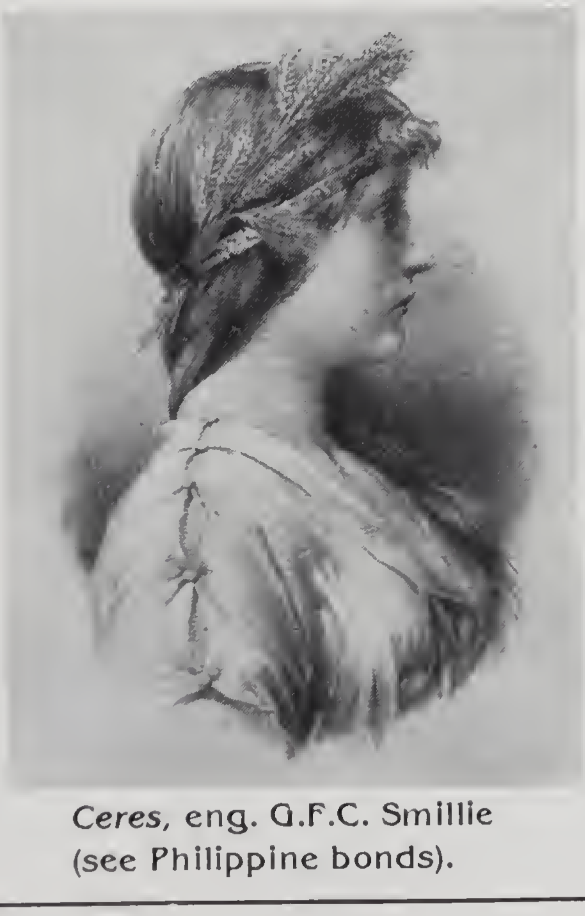
Bacon, R.
Bryan, W.J.
Calhoun, J.C.
Foster, J.W.
Lansing, R.
Livingstone, E.
Olney, R.
Payne, H.C.



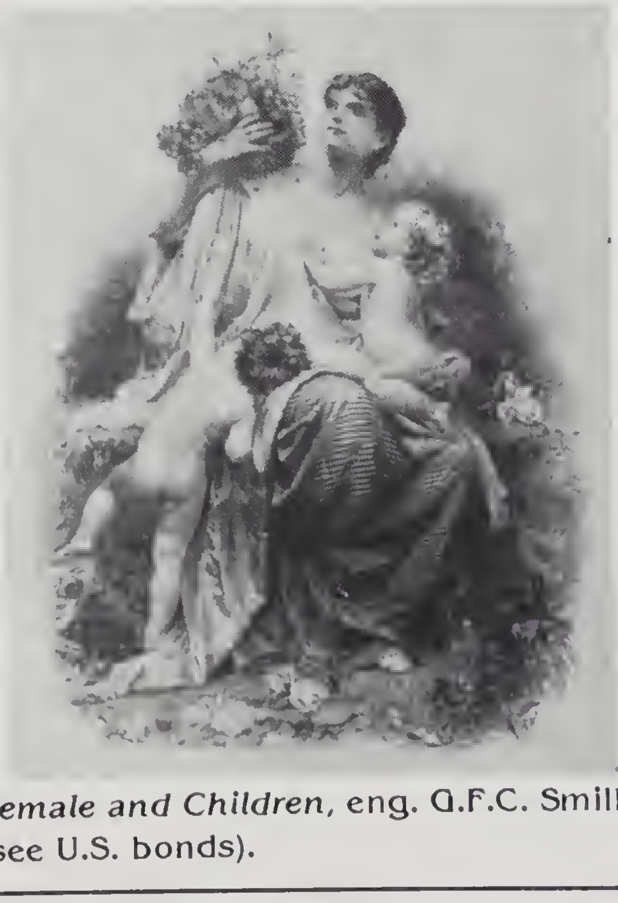
Spain 1000 pesetas, P13: *Industry; The Reapers* eng. G.F.C. Smillie; *Agriculture* art by W.W. Rice, eng. C. Schussele.



Hawaii, *King Kalakau* (eng. G.F.C. Smillie), *Locomotive* (art & eng. J.D. Smillie), *Propellers* (eng. H. Beckwith), *Harvesting*.



Ceres, eng. G.F.C. Smillie
(see Philippine bonds).



Female and Children, eng. G.F.C. Smillie
(see U.S. bonds).

Secretaries of War

Baker, N.T.
Dickinson, J.M.
Garrison, W.L.
Root, E.
Taft, W.H.
Wright, L.E.

Chief Justices

Fuller, M.W.
Jay, John.
Rutledge, J.

Postmasters General

Hitchcock, F.H.
Smith, C.E.
von Meyer, G.

Foreign Bank Notes

Argentina
America, 2 pesos, PS677.
Arms of 14 Provinces (eng. with H. Beckwith), 20¢-50 pesos (backs), PS644-656.
Brazil
Bernardes, A., 20 mil reis, P116 & P117.
Dom Pedro I, 200 cruzeiros, P154.
Canada
Howland, P., $5-$100, PS1142-1145A.
Victoria, Queen, $5, PS1483.
Wales, Prince of, $20, $50 & $100, PS788-790.
Chile
America, 1 peso, PS126.
Boy's Head, 10 pesos, PS308.
Cherubs, 5 pesos, PS498.
Torconal, 1 peso, PS411.
Colombia
Genius, 50 pesos, PS655.
Minerva, 1 peso, PS422.
Nariño, A., 10 pesos, P364.
Costa Rica
Guardia, Gen. T., 10 pesos, PS214.
El Salvador
Clasped Hands, 50 pesos, PS126.
Greece
Stavros, B., 1,000 drachmai, P69.
Haiti
Majesty, 1 gourde, P75.
Hawaii
Kalakau, King, $500, P5.
Mexico
Columbia, 10 pesos, PS210.
Mexico (Listed in Smillie's diary, this could be a C. Skinner re-engraving.) 1-1,000 pesos, PS255-263.
Off Duty, (artist; see J. Smillie).
Newfoundland
Old Nap (dog), $10, PS126.
Nicaragua
Columbia, 10, 25 & 50¢, P72-74.
Commerce (2 females), 1 cordoba, P66.
Philippines
Lawton, Gen. H.W., 50 pesos, P49 & P65.
López de Legazpi, Gov. Miguel, 500 pesos, P67 &P72.
Mabini, Apolonario, 1 peso, P60.
Rizal, José, 2 pesos, P25 & P44.
Venezuela
Liberty, 20 bolivares, PS122.

Reapers, No. 2, The

(82 mm high)

Brazil
200 mil reis PS644.
Czechoslovakia,
1,000 korun (back), P13 & P25.
Hawaii
$100, P10.
Spain
1,000 pesetas (back), P13.
Uruguay
50 pesos, PA106.

Reapers No. 3, The

(45 mm high)

Argentina
200 pesos (back), PS683.
Brazil
200 mil reis, P532, P612 & P626.
Colombia
15 pesos, PS891.
El Salvador
1 peso, PS201 & PS202.
Nicaragua
50 cordobas, P55 & P64.
Peru
5 libras (back), P27, P38 & P50; 50 soles (back), P58, P68 & P68A.

Philippine Bonds

Gridley, Capt. C.V., $1,000 (1905).
Ceres (based on *Antique Poesy* by Jules Lefebvre): 4½% gold, $100 & 1,000 reg. bd. (1922); $100, 1,000 cp. bds. & 5,000 reg. bd.
Meacham, Major, Water & Sewer bonds (1905).

Corporate Bonds

Electricity: Detroit Edison (1924 & 1926); Consolidated Edison of NY (1936), both reg. & cp. bds.
Foot of the Shaft: Augusta Mining & Investment Co.; Cahaba Coal Mining Co.; Cameron Coal Co.; Chicago & Northwestern Rwy; Ohio Central Coal Co., Southern Pacific Railroad Co. of Arizona.
Reapers, No. 2, The, (82 mm high) coupon bonds: Chesapeake & OH Rwy; Chicago & Northwestern Rwy; St. Joseph & Iowa RR Co. (See A. Delnoce, W.J. Brown and R. Savage for more examples.)
Reapers, No. 3, The (45 mm high) coupon bonds: Chesapeake & OH Rwy; Chicago & Northwestern Rwy; St. Joseph & Iowa RR Co. (See A. Delnoce, W.J. Brown and R. Savage for more examples.)
Science, Labor & Manufacturing (art by A. Foringer; background by L. Delnoce, Jr., finished by W. Adolph): Brooklyn Union Gas Co. (1930); General Cable Corp. (1928), both cp. bds.
Water Carriers (art by Sir Frederick Leighton), Bowman-Biltmore Hotel Corp. cp. bd. (1924).
Weavers of Speech, New England T&T Co. reg. bd. (1938).

Stock Certificates

Electricity, Detroit Edison Co.
Garfield, James: Garfield NB; Garfield & Cherry Grove RR (both 1882).
History (woman with tablet in clouds), Moon Motor Car Co. (1930).
Male Allegory (art by A. Foringer): Midvale Co. (1923); North American Cement Co. (1925); American Gas & Electric Co. (1943).
Manufacturing (seated man; art by A. Foringer), National Standard Co. (1930); Dixie Cup Co. (1943).
Reapers No. 3, The (45 mm high), Quaker Oats Co.
Science, Labor & Manufacturing, Monsanto Chemical (see corporate bonds).
Sculpture, Bank of Italy, California (1922).
Weavers of Speech, New York T&T.

Stamps

Brazil
Dom Pedro (recut), A13, A18-20.
Chile
Columbus, C., A5.
Costa Rica
Fernandez, Gen. P., 1¢ & 2¢, A6.
Guatemala
Barrioz, President, A12 type.
Philippines
Franklin, Benjamin, 30¢, A40.
López de Legazpi, Miguel, 8¢, A40.
McKinley, William, 4¢, A40.
Rizal, José, 2¢, A40.
Sampson, Adm. William T., 16¢, A40.

Puerto Rico
$50 excise stamp (1901).
Spain
Alfonso XII, King, (eng. with L. Delnoce): 2, 4, 5, 10, 20 , 25 & 40 pesetas, A49.

United States
Clay, Henry, revenue stamp (1897), cigar stamp (1909).
Cleveland, Grover, $50 revenue stamp (1917).
Louisiana Law stamp (1880).

Uruguay revenue stamps (1877) 5¢-37.50 pesos.

Miscellaneous

Females (3), New England Mutual Insurance Co. policy envelope (1880).
Garfield, James, in *Story of American Bank Note Co.*
Geography, U.S. Postal Panel (1982).
Hopkins, Mark, Central Pacific RR check (1884).
Nymph (female head), Hamilton BNCo advertising card.

SMILLIE, James. *Art & PEng.* b. Edinburgh, Scotland 23 Nov. 1807, d. Poughkeepsie, NY 4 Dec. 1885. At 12, in Edinburgh, he was apprenticed to James Johnston, a silversmith, an later to Edward Mitchell. He came to Quebec, Canada in 1821 with his family. In 1827, under the patronage of Lord Dalhousie, he was sent to London and Edinburgh where he studied with Andrew Wilson for further engraving studies. After he returned to Quebec in 1828 he visited NYC in 1829. Smillie decided to work in NYC where he was first employed by Stephen H. Gimber. He met and engraved plates for R.W. Weir and A.B. Durand; he also engraved plates to illustrate the *New York Mirror.*

In 1830 after a brief visit to Quebec Smillie realized New York had more to offer, so he returned. One year later he and G.W. Hatch formed Hatch & Smillie; they did commercial engraving. In 1836 he was affiliated with Draper, Toppan & Longacre. In 1841 this engraver worked for Rawdon, Wright & Hatch. The following year Rawdon, Wright, Hatch & Smillie was formed; this branch of RW&H engraved nothing but non-bank note pictures. Smillie was affiliated with the bank note companies of Draper, Toppan & Longacre (1836), and Rawdon, Wright & Hatch (1851). In 1844 or 1845 James Smillie formed a partnership that lasted for two years with his brother-in-law Robert Hinshelwood, who, Smillie helped bring from Edinburgh. (Smillie's sister Margaret married Hinshelwood.) In 1861 Smillie joined the NBNCo; seven years later he moved to the ABNCo.

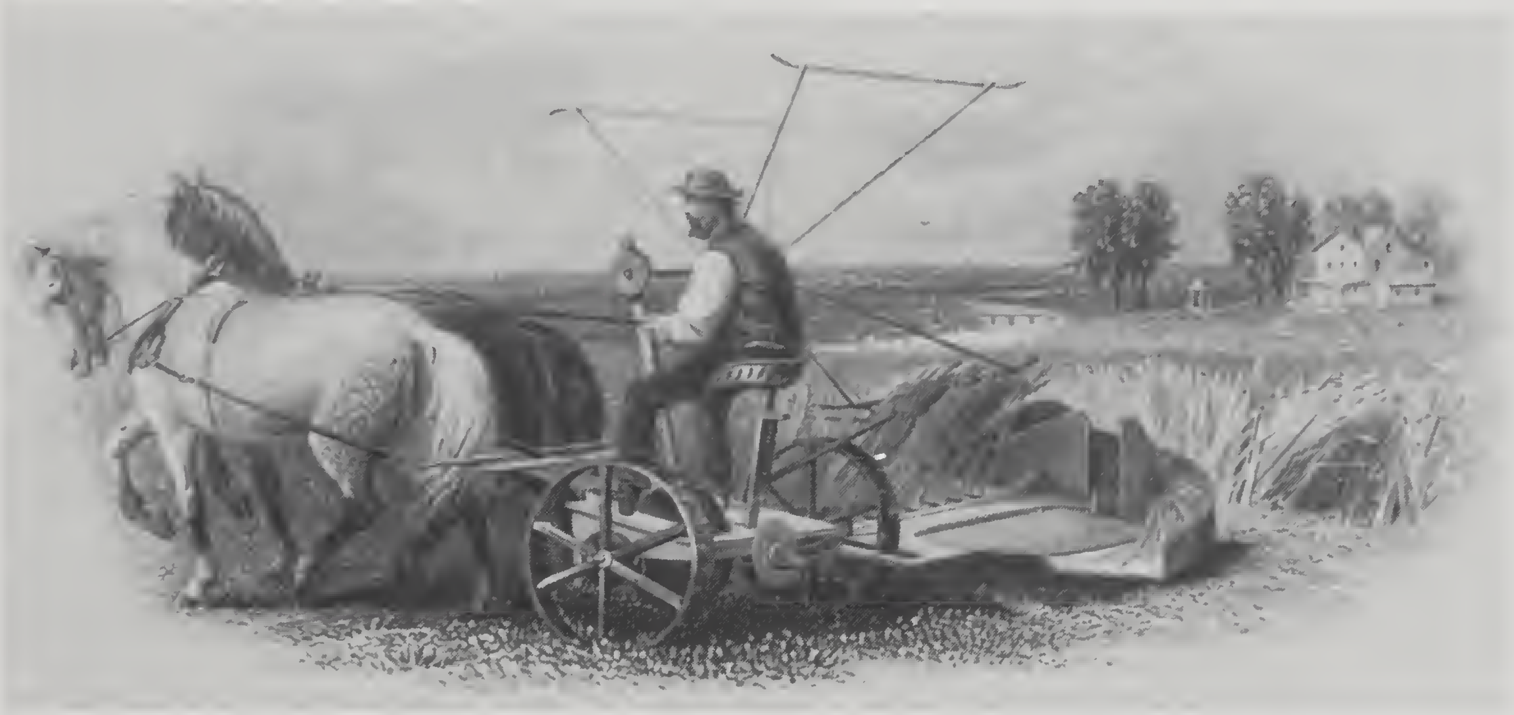
James Smillie is the father of James D. and William Main Smillie; W.C. Smillie is his brother. The diaries of his son, James D., mention that on 1 Nov., one month before he died, James Smillie instructed his son how to complete his engraving of *Lions at Home* by Rosa Bonheur.

United States Federal Bank Notes & Bonds

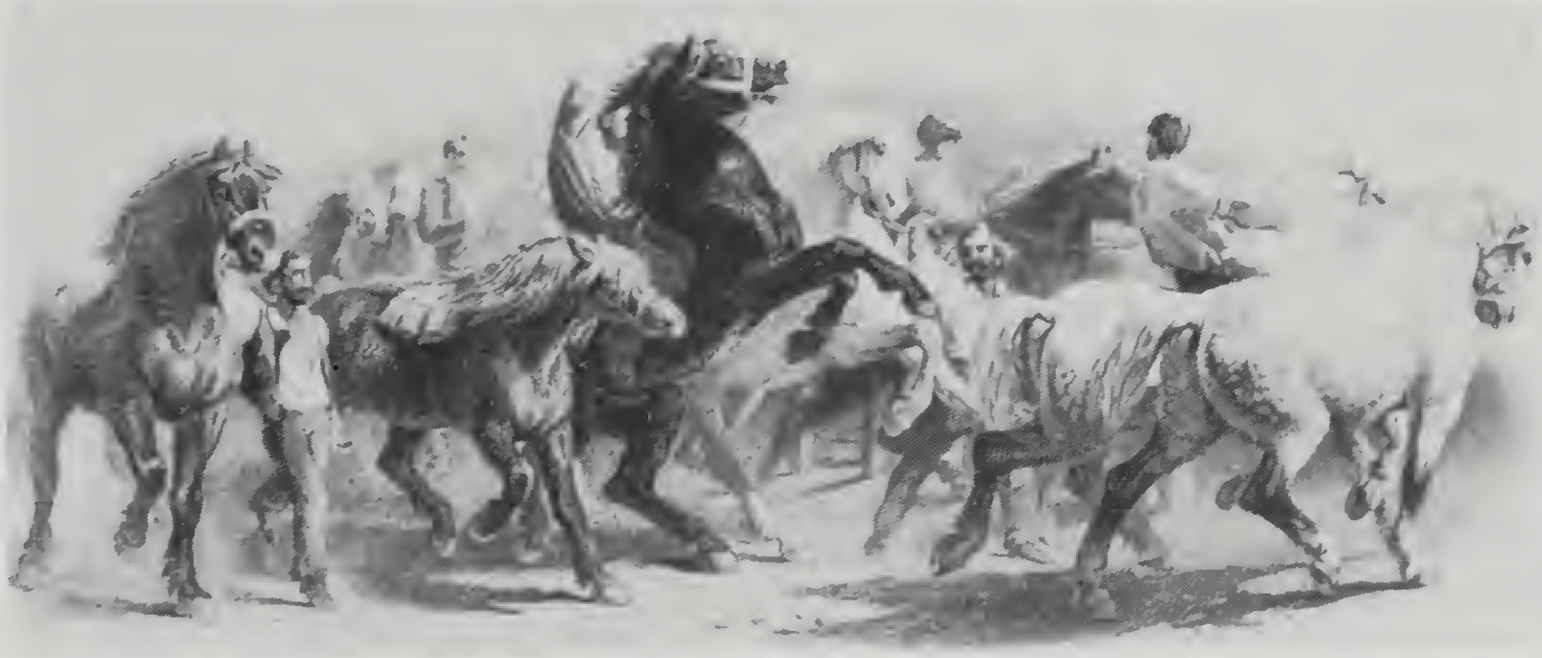
Arms of Missouri, use uncertain.
Arms of Pennsylvania, use uncertain.
Coins (backs of all): $5 NGBN, H343-348; $10 NGBN, H567-577; $20 NGBN, H799-807; $50 NGBN, H1013-1014f; H1013-1014f; $100 NGBN, H1207-1211d; and $500 H1351-1351d.
Franklin and Electricity, 1752 (eng. with A. Jones), $10, H497-539 & H567-577.
Mortar Firing: $20 CITN, H724-726; $20 IBTN, H727; and $500 IBTN, H1346-1349.
New Ironsides: $500 CITN, H1339; $100 bond, HX141H; $5,000 bond, HX142E.
United States Capitol, $1,000 NBN, H1403 & H1404.

United States Obsolete Bank Notes

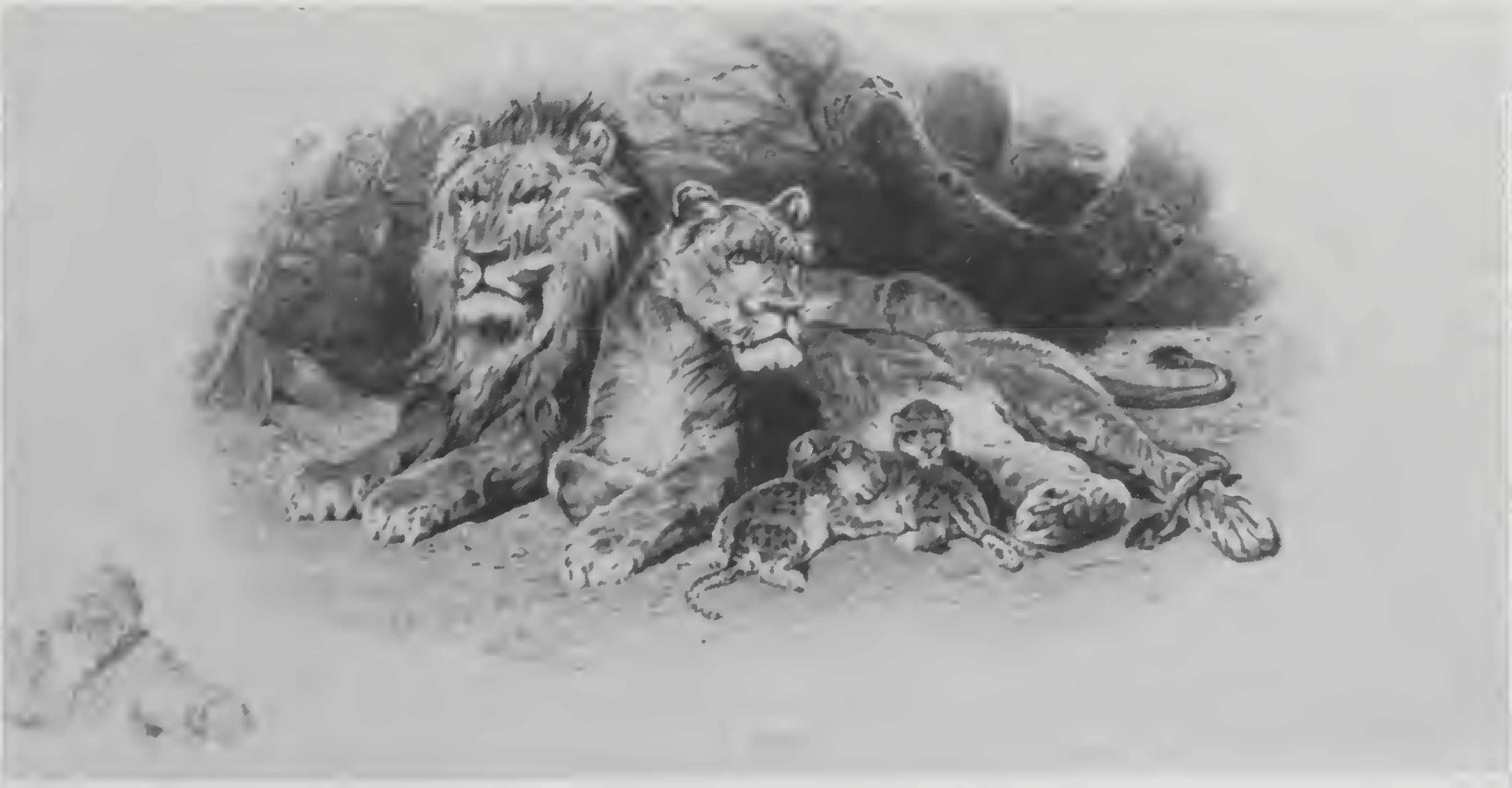
Adriatic (art, C. Parsons), Citizens Bank of Louisiana $10.
Buffalo Hunt, State Bank of IL $1 & $2.50.
Crossing, The: (Records at ABNCo state that in 1859 Robert Hinshelwood was paid for engraving this subject for the NBNCo. However, engravers who have examined this engraving say it is the work of James Smillie. In 1861, or later, Smillie could have altered or reengraved this subject.) C.S.A. $500, P3; Merchants & Mechanics Bank, Wheeling, WV (payable at Clarksburg) $5; North Western Bank, Warren, PA $1.
Dock Scene, City of Memphis, TN $5.
Dog's Head, Salem Bank, MA $50.
Drove, The, Corn Exchange Bank, DeSoto, NE $3.
Ducks: Bank of Trenton, IL $3; Plowmans Bank, IL $1; Bank of Pontiac, MI $1.
From Labor Loosed the Drooping Team (F.C.O. Darley, artist), Kaskaskia Bank, IL $5.
Gutenberg, Schoeffer & Füst: Pittsfield Bank, MA $50; Safety Fund Bank, Boston, MA $3; Commercial Bank of Troy, NY $3; East River Bank, NYC $3; Bank of Yanceyville, NC $20.
Hail, The, (art by F.W. Edmonds; eng. with A. Jones), The Trader's Bank of Chicago, IL $5.
Horse Fair, (art by Rosa Bonheur), Bulls Head Bank, NYC $5.
Horses: Hungerford's Bank, Adams, NY $5; Perry County Bank, Cannelton, IN $1.
Indians and Waterfall, Bank of Minnesota, St. Paul $2.
Milking Time, Nebraska Corn Exchange Bank $1.
United Pipe Line (Oil Wells) Meramec Iron Works, MO $3.



Buckeye Reaper, art by J.D. Smillie, eng. by J. Smillie, Mexico 10 pesos, PS274.



The Horse Fair, see U.S. obsolete bank notes.



Lions at Home, eng. by J. Smillie, Brazil 20 mil reis, PS532. Notice the portrait of the engraver at the lower left.

Foreign Bank Notes

Argentina

Arms of Argentina, 100-500 pesos, PS657-659.

Bull, Buenos Ayres (art by J.D. Smillie), 5 pesos, PS482.

Camping on the Pampas (art by J.D. Smillie), 50 pesos, PS507.

Corral (eng. with C. Burt, art by A. Chappel), 200 pesos, PS494.

Pampa Horse (based on *The Neigh of an Iron Horse* by A. Tapy, 1859), 10 pesos (image reversed), PS485.

Pursuit, The, 10¢ (back), P210 & P214.

Saladero (art by J.D. Smillie), 500 pesos, PS497.

S.S. City of Tokyo, 200 pesos, PS510 & PS543.

South America Ostrich Hunting, 10¢, P6, P210 & P214.

Steer's Head (eng. with E.G. Farmer; art by E. Landseer), 1 peso, PS1661.

Bolivia

Banco Nacional de Bolivia, 10 bolivianos (back), PS201.

Mountains and Village, 1 bol., P118.

Off Duty (art by G.F.C. Smillie), 5 bol., PS212.

Water Carriers, 1 bol. (back), PS221.

Brazil

Alley of Palms, 2 mil reis, PA245.

Arms, 1 mil reis (mr), PA244 & PA250, 50 mr, PA246, 200 mr, PA248, 500 mr, PA242.

Lion Head (art by R. Bonheur), 100 mil reis, PS553.

Lions at Home (Family of Lions), 20 mil reis (back), PS532.

Rest (reworked by J. Smillie), 5 mil reis, PA261.

Sheep under Oak Tree (art by J.D. Smillie), 100 mil reis (back), PS553.

Ship, 100 mil reis, P60.

Canada

Cattle on the Road (art by Oertel), $5, PS1483.

Coming Light (eng. with A. Jones), $20, PS1357, PS1365 & PS1366.

Contentment, $5, PS1282.

First Ride, The, $50, PS1090.

Neptune, $5, PS1684.

Steamship, $5, PS619.

Steamship, $5, PS796 & P801.

Steer's Head (art by E. Landseer; eng. with E.G. Farmer), $50, PS689.

Chile

Chile Bull, 1 peso, PS331.

Combat of the Esmeralda and Hanscar, 20 pesos, PS220.

Condor (art by J.D. Smillie), 10 pesos PS334.

Equestrian Statue, 100 pesos, P24.

Horse, 5 pesos, P36.

Lion Head, 100 mil reis, PS553.

Monument in Concepción, 20 pesos, PS180.

St. Lucia Hill-Santiago, 5 pesos, P12.

China

Game Cock, $1, $5 & $10, P517-519.

Colombia

Dog's Head, 1 peso, PS422.

Husbandman, 5 pesos, PS511.

Paddle wheeler, 5 pesos, PS867.

Costa Rica

Costa Rica Arms, 20 pesos, PS215 & 1 peso (back), PS221.

Cuba

Sugar Plantation, 10 pesos, P49.

El Salvador

Buildings & Mountains, 10 pesos, PS263.

Street Scene, 5 pesos, PS262.

Guatemala

Thunder and Lightning (Cupids), 10 pesos, PS204.

Hawaii

Arms of Hawaii, $10 (back), P1.

S.S. Furnessia, $10, P7.

Sugar Plantation, $10, P7.

Italy

Arms of Italy (art, E. White), 5 lire, PS273, 10 lire, PS274.

Mexico

Buckeye Reaper (art by J.D. Smillie), 10 pesos, PS274.

Cattle Market, 100 pesos, PS237.

Cattle on the Road (art by Oertel), 10 pesos (back), PS164.

Coming Light (eng. with A. Jones), 500 pesos PS472.

Contentment, 25¢, PS151.

Dog and Treasury, 50 pesos, PS158.

Female (seated) (eng. with A. Jones), 1,000 pesos, PS473.

Griffins, 5 pesos, PS399.

Horse Fair, The (art by Rosa Bonheur), 500 pesos (back), PS238.

Lions at Home (Family of Lions), 500 pesos, PS238.

Mining Scene (eng. with A. Jones), 500 pesos, PS404.

Off Duty (art by G.F.C. Smillie), 5 pesos, PS345.

Foreign Bank Notes
(continued)

Sheep Under Oak Tree (art by J.D. Smillie), 20 pesos, PS129.
Ship, 500 pesos, PS214.

New Foundland
At the Ford, $5 (back), PS125.

Nicaragua
Reaper in South America, 5 pesos, PS108.

Paraguay
Off Duty (art by G.F.C. Smillie), 50¢, PS144.

Peru
Bee Hive, 5 soles, PS424.
Ducks, 20 soles, PS121.
Livestock, ½ sol, PS381.

Peru
Llama Train, 20 soles PS232 & PS500; 500 soles, PS235.
Water Carrier (art by J.D. Smillie), 5 soles, PS313.

Spain
Arms of Spain, 500 pesetas, P27.

Uruguay
Pampa Horse (based on *The Neigh of an Iron Horse* by A. Tapy, 1859), 50¢, PS372.
Reaper in South America, 50 pesos, PA106.
Sheep, 20 pesos, PS357.

Corporate Bonds

Bottom of the Shaft (art by J.D. Smillie): Cahaba Coal Mining Co. (1884); Cameron Coal Co. (1883); Chicago & Northern Rwy Co. (1881); Spring Valley Coal Co. (1885).
Brooklyn Bridge & Elevated Railroad (J.D. Smillie artist; eng. with R. Berry, 1879), Brooklyn Union Elevated RR Co. 1st mort. cp. bd.
Crossing, The (see U.S. obsolete bank notes): Compania Nacional des Ferrocanil Mineral de Pasco bond, Peru (dated 1872, mountains were added); Carolina Central RR Co. bond (with embellishments).
Electricity (woman; eng. with A. Jones), General Electric Co. 5% cp. deb. (1912).
Emigrant Train, Northern Pacific Rwy Co. 5% (1922).
Husbandman, State of Texas (1879); Texas Mexicana Rwy Co. (1881).
Kansas Arms (art by J.D. Smillie): Atchison, Colorado & Pacific Rwy (coup. 1879); Denver, Memphis & Atlantic RR (coup. 1884); Topeka, Selina & Western RR (1882).
Miner No. 1, Lehigh Coal and Navigation Co. 4% fund. & improvement cp. bd. (1898).
Mining Scene, Irrigation & Hydraulic Mining Co. 1st mort. cp. bd. (1890).
Mining Scene (eng. with A. Jones), New Mexico Rwy & Coal Co. 5% 1st consol. mort. cp. bd. (1901).
On the Cliff (eagle; art by William Croome), Georgia & Alabama RR. (The original die was engraved at ContBNCo.)
On the Hudson: Chicago & Northwestern Rwy (1883); Straitsville RR (1881); NY, West Shore & Buffalo Rwy (cp. & reg. 1881).
Progress (art by J.D. Smillie): Atlantic & Pacific RR (1880); Denver & Rio Grande Western Railway Company (1881); Kansas Pacific Rwy (1879).
Queen of the Air, American Cigar Co. (1902); Bethlehem Steel Corp.
Ship, Steam Ship Co., NYC.
The Harbor: B&O RR (1885); Burlington, Cedar Rapids & Northern RR registered bond (1899); Wabash, St. Louis & Pacific Rwy (1880).
Train, Beech Creek RR Co. 5% (1892).

Stock Certificates

At the Ford (eng. with M.W. Baldwin), Pet Milk Co. (1882).
Female & Male (seated), Union Pacific RR Co. (187_).
In the Maine Woods, St. Paul & Northwestern RR Co. (1882).
Kansas Arms (art by J.D. Smillie), Atchison, Topeka & Santa Fe Rwy (1880).
Logging, St. Paul Eastern Grand Trunk Rwy Co.
Mining Scene, Little Giant Hydraulic Mining Co. (1880).
On the Cliff (eagle; art by W. Croome), North American Co.
On the Frontier, Long Bell Lumber Co. (1882).
Overlook, The, Satemo Gold Quartz Co. stock certificate (1881).
Scotch Terrier, National Shoe & Leather Bank.
Steamboat, Iron Steamboat Co.
Steam Fire Engine No. 2 (art by Montrose), NH Insurance Co. (1875).
Steamship, United Fruit Co.
Sugarcane, Southern Puerto Rico Sugar Co.

Miscellaneous

Jersey City Ferry ticket (1878).
Ohio Mechanics Institute — Board of Trade — Chamber of Commerce Award medallion (60 mm) (1872).
Statue of Liberty (orig. art by Moran, drawn for engraving by J.D. Smillie), uncertain use.
Yellowstone Park, First National Bank of Helena draft & certificate of deposit (1884).

SMILLIE, James David. *Art, Et & PEng.* b. NYC 16 Jan. 1833, d. NYC 14 Sept. 1909. This eldest son of James Smillie studied with his father; he supplied the first drawing that his father engraved at American BNCo. This engraver worked for Jocelyn, Draper, Welsh & Company. In 1862, after three years with ABNCo, he went to Europe to paint; on his return J.D. Smillie chose to devote his life to painting. On 6 June 1865, referring to engraving *Rebit on Ferryboat* for ABNCo he wrote that "It is an intolerable bore for me to do such work, and I wonder at myself for consenting" (Schneider 8). Nevertheless he continued to provide art work for ABNCo.

He exhibited at the National Academy of Design (NAD) and was a founder of the New York Etching Club and American Water Color Society. Smillie was an authority on etching; he wrote and presented lectures on the subject. In 1876 James D. Smillie became an Academician at the NAD. The account books of J.D. Smillie record that he also produced art work for *Appleton's*, William Harrison, *Harper's* and NBNCo. An entry for 1871 mentions a "Japanese drawing for CBN." The ContBNCo prepared beautiful national bank notes for Japan in 1873; one piece of art work could be Smillie's. In that same year his diaries record a design for "$5 national currency." This probably refers to the unissued national circulating notes that were meant to replace the first national bank notes. In 1874 he etched Post Office stamps for "ContBNCo." This probably refers to the 1875 stamps prepared by the ContBNCo. Smillie's income for 1877 was $2,526, mostly for sales of watercolors. He was born at 1 King St., NYC and is buried at Greenwood Cemetery, Brooklyn NY.

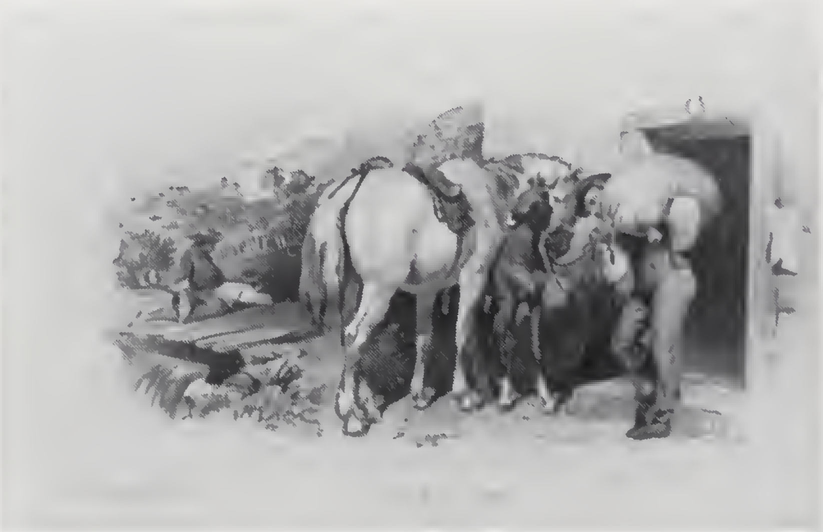
Unless indicated, James D. Smillie engraved the following pieces. If only one engraver's name is listed, James David Smillie (J.D.S.) created the art work.

United States Federal Bank Notes & Bond

Arms for: Alabama, Florida, Mississippi, Missouri, New Mexico (territory) and Virginia. (The art for these arms was done between 1865-1879 and was probably intended for national bank notes.)
Civilization: $500 NBN, H1350-1351a; $500 NGBN, H1351b-1351d.
Civilization (woman & children; eng. L. Delnoce), $5,000, HX130E.
Eagle's Nest, The (art by Gilbert Stuart, drawing for engraving by H.W. Herrick, etched by O.G. Hanks): $50 HX130A. (See Luigi Delnoce for reworked engraving of the eagle on the left.)

United States Obsolete Bank Notes

Agriculture (art by C. Schussele), Bank of Lebanon, NH $100.
Factory Scene, Citizens Bank, Pittsburgh, PA $10.
Major Waldron's Terrible Fight (background by J.D. Smillie; see W.W. Rice).
Mill Door, The: Lawrence Bank, KS $1; Farmers Bank of Greensboro, NC $5. (The engraver's name is visible on the sale notice nailed to the mill doorway.)
News from Home (eng. with W.W. Rice), Oil City Bank, PA $5.
Rebecca at the Well (art by Casilear; eng. with A. Jones), Petroleum Bank, Titusville, PA $2.
Steamboat, Omaha & Chicago Bank, Omaha, NE $1.



Foreign Bank Notes

Argentina

Bacchus (eng. F. Girsch), 50 pesos, PS490.

Bull, Buenos Ayres (eng. J. Smillie), 5 pesos, PS482.

Camping on the Pampas (eng. J. Smillie), 50 pesos, PS507.

Gaucho and Guitar (eng. C. Burt), 50 pesos, PS488-490.

Lassoing Cattle (eng. with C. Burt), 10 pesos, PS1596.

Pampa Horse (eng. J. Smillie), 10 pesos, PS485.

Ram & Sheep (eng. J. Smillie), 50 pesos, PS1503.

Saladero (eng. J. Smillie), 500 pesos, PS497.

South American Ox Team (eng. H. Beckwith), 10 pesos, PS539.

South America Ostrich Hunting (J.D.S. artist), 10¢, P6.

Brazil

Bacchus (eng. F. Girsch), 2 mil reis, PA251.

Imperio do Brasil (seated woman), 10 mil reis, PA252.

Pedro I, Dom (Statue) (eng. C. Skinner), 1 mil reis, PA255, P3 & P5.

Sheep under Oak Tree (eng. J. Smillie), 100 mil reis (back), PS553.

Canada

Arms for Bank of Hamilton, $5 (back), PS448.

Flour Mill on Canal, $4, PS1571.

Chile

Condor (eng. J. Smillie), 10 pesos PS334.

Rebecca at the Well (art by Casilear; eng. with A. Jones), 1 peso, PS166 & PS427.

Columbia

Bacchus (eng. F. Girsch), 100 pesos, P218.

Factory in the Tropics (L. Delnoce artist), 1 peso, P74.

Locomotive (art by J.D.S.), 50 pesos, PS869.

Ecuador

Church in Ecuador (eng. C. Skinner) 20 pesos, PS264.

Hawaii

Locomotive (art by J.D.S.), $500, P5.

S.S. Furnessia (eng. J. Smillie), $10, P7.

Mexico

Bacchus (eng. F. Girsch), 50 pesos, PS158.

Buckeye Reaper (eng. J. Smillie) 10 pesos, PS274.

Dog and Treasury (eng. J. Smillie), 50 pesos, PS158.

Female and Children (eng. A. Jones), 25¢, PS118.

Female in Canoe (eng. A. Jones), 100 pesos, PS167 & PS471.

Gathering Pulque (eng. A. Jones) 10 pesos, PS210.

Locomotive (art by J.D.S.), 1 peso, PS255.

Nicaragua

Reaper in South America (J.D.S. artist), 5 pesos, PS108.

Peru

Coin (eng. G. Verbeck, Sr.), 1 & 2 soles, PS321 & PS322.

Water Carrier (eng. J. Smillie), 5 soles, PS313.

Uruguay

Ram & Sheep (eng. J. Smillie), 20 pesos, PS357.

Reaper in South America (art by J.D.S.), 5 pesos, PS108, 50 pesos, PA106.

Uruguay Arms, 20 & 50 pesos, PS386 & PS387.

Venezuela

Rebecca at the Well (art by Casilear; eng. with A. Jones), 40 bolivares, PS185.

Corporate Bonds

Agriculture (woman & 2 sheep; art by C. Schussele), Republican Valley RR (1879).

Brooklyn Elevated Railroad (art by J.D.S.; eng. by J. Smillie & R. Berry, 1879).

Coal Breaker, Ohio Central Coal Co. (1880).

Indiana Arms (art by H.W. Herrick), Indianapolis & St. Louis Rwy (1883).

Kansas Arms (eng. by J. Smillie).

News From Home (eng. with W.W. Rice), Argentina, 1881.

Progress (eng. by J. Smillie).

Sugar Cane Press (art by H.W. Herrick; eng. with A. Jones), American Sugar Refining Co. (1891).

The Depot (art by J.D.S.), Wabash, St. Louis & Pacific Rwy cp. bd. (1881).

Unidentified art for Jay Cooke & Co. Pacific Rwy (1869).

Stock Certificates

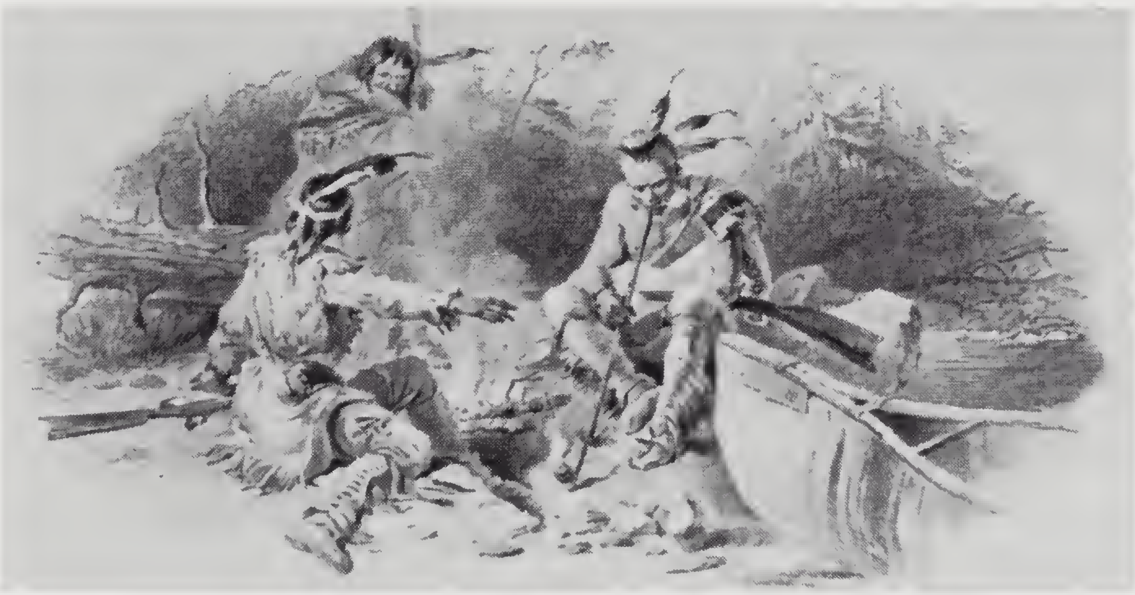
Coal Breaker, Delaware, Lackawana & Western RR (1881).
First Telegram (art by and eng. with L. Delnoce). American Cable Co. (1883); Commercial Telegram Co.
Kansas Arms (see bonds).
Locomotive (art & eng. J.D.S.). Chesapeake & Ohio Rwy Co.; Chicago & Northwestern Rwy Co.
Locomotive (art & eng. J.D.S.). Chicago, Milwaukee & St. Paul Rwy.
Propeller Landing (art & eng. J.D.S.), Adirondack Pulp Co. (1882).
Quarry Train (art by P. Dixon), New York, Rutland Montreal Rwy (1882).
Sheep (art & eng. J.D.S.). Montgomery Palace Stock Car Co.
Telegram No. 2 (seated woman; art by Luigi Delnoce; eng. by J.D. Smillie & L. Delnoce), Gold & Stock Telegraph Co.

Stamps

Brazil
Pedro, Dom: 80 reis, SA13, 300, 700 & 1000 reis, SA18-20 (all eng. with C. Burt).
Canada
Beaver, 5¢, A8.
Chile
A3 (50¢ with C. Burt).
Nicaragua
Liberty Cap on Mountain Peak, 1¢, 2¢ & 5¢, A1-3.

Miscellaneous

Deer (art also by J.D.S.): Cincinnati Third NB draft (1880); German bank, Wisconsin draft (1881).
Gun Boats (art by C. Parsons), Mad River NB draft (1883).



Indian Camp (art by F.O.C. Darley; eng. with C. Burt), State of VA registered bond, 1882.
Monitor & Merrimac (art by C. Parsons), State of Connecticut diploma (1862). Massachusetts Soldiers Certificate (art by J.D.S.; ABNCo, 1871).
Yellowstone Park (art by J.D.S.; eng. J. Smillie), First NB of Helena, MT draft & certificate of deposit.

SMILLIE, Walter de Forrest. *LtEng.* d. Brazil. He was the adopted and only son of W.C. Smillie. He was with American BNCo as early as 1878 and perhaps as late as 1890.

SMILLIE, William Cumming. *LtEng.* b. Edinburgh, Scotland 23 September 1813, d. Poughkeepsie, NY 2 July 1908. He was the brother of James Smillie; they came to Canada in 1821. In 1830 he moved to New York City to engrave for the following bank note companies: Draper, Toppan, Longacre & Co.; Draper, Toppan & Co.; Toppan, Carpenter, Casilear & Co.; Toppan, Carpenter & Co.; Rawdon, Wright, Hatch & Co. and Edmonds, Jones & Smillie. Between 1860 and 1864 he worked for American BNCo. In 1866 Smillie was engraving for the Canadian government before he founded the British American BNCo in Montreal and Ottawa. He established the short-lived Canada BNCo and returned to the BrABNCo in 1889.

SMILLIE, William Main. *Des & LtEng.* b. NYC 23 Nov. 1835, d. NY 21 Jan. 1888. His career began with Toppan, Carpenter, Casilear & Co. He was working with Toppan, Carpenter & Co. when American BNCo was organized in 1858; there he worked with his brother, James David. In 1866 their father, James, joined them at ABNCo. In 1859, William Main became Superintendent of the Engraving Division; ultimately he served as vice-president of ABNCo.

SMITH, Charles Albert. *LtEng.* b. Spring Lake, FL 3 Nov. 1890, d. 25 Apr. 1959. His career at the Bureau of Engraving and Printing began as a temporary engraver on 2 September 1923; he resigned 30 Apr. 1925. Smith joined American BNCo on 5 May 1925 and remained until 29 Dec. 1929. From 15 Jan. 1930 to Apr. 1934 he was with the Republic BNCo. Smith returned to the BEP on 2 July 1934 and was permanently appointed on 19 Jan. 1940; he was there as late as 1951.

SMITH, Charles H. *PEng.* d. ca. 1894. He was employed at American BNCo in the early 1860s. In 1875 he was engraving for the ContBNCo. With A.L. Helm and T.C. Kenworthy this engraver founded the USBNCo in 1876; the company failed in 1877. On 2 June 1882 Charles H. Smith was indicted under the name of Smythe. The "court held that the misnomer was sufficient to invalidate the indictment" (*The New York Times* 2 June 1882). On 3 June Smith was arrested again on the same charges, and was apparently released once again.

On 21 June 1882 Charles H. Smith was arrested in Brooklyn, NY for stealing plates from which $1,000, 6 percent bonds, HX125D or HX128J were printed. Plates were not stolen, the bonds in question were just excellent counterfeits by William H. Smith who was no relation. "Charles H. Smith states that the plates [for the $1,000 treasury notes, H1401] were engraved by him" (*Underwood's Counterfeit Detector,* March 1881, 149). This distribution of this counterfeit was masterminded by William Brockway. The name of William H. Smith (Smythe), also an engraver, was mentioned in the 24 Oct. 1880 edition of *The New York Times.* These two unrelated engravers of counterfeit notes are often confused when identified.

Miscellaneous

Mule Team and Cotton, Eastern Bank of Alabama, Florence, $5.

Raft, Omaha and Chicago Bank, Omaha City, NE $2.

Return of Peace, USN $50, H928. (*Peace* holds a different version of *Mercury* on the issued note.)

Sailors and Surf Boat on Beach, use uncertain.

U.S. $36 Newspaper stamp (1875).

USN $50 (portion of back), H928.

SMITH, Edward C. *Trans.* He began his employment at American BNCo on 25 Jan. 1926. Later Smith moved to the Bureau of Engraving and Printing where he remained in 1951.

SMITH, George Girdler. *Art, Eng & Lith.* b. Danvers, MA 8 Sept. 1795, d. Boston, MA 18 Dec. 1878. He was engraving as early as 1815 after probable study with Abel Bowen. Following a partnership with William B. Annin (1820-1833) he moved to the Senefelder Lithographic Co. Additional employers were Terry, Pelton & Co.; Charles Knight; and the Boston engraver George H. Tappan.

SMITH, John Calvin. *Eng.* b. ca. 1812, d. 1854. In 1837 he was a partner in Stiles, Sherman & Smith. When he died, the firm name was Sherman & Smith.

SMITH, John E. This printer from Augusta printed Georgia notes dated 16 Oct. 1786.

SMITH, Raymond Ostrander. *Art, Des.* b. NYC 14 Nov. 1873, d. Mt. Vernon, NY 4 October 1933. His education in New York City included art studies at age 11. John Quincy Adams Ward, his stepfather and artist at American BNCo, secured a position for Smith at ABNCo from 14 Dec. 1887 until he joined the Bureau of Engraving and Printing where he remained until 22 Nov. 1902 when he returned to ABNCo. On 11 Sept. 1930 Smith became Superintendent of Design. Smith died in the employ of ABNCo.

United States Federal Bank Notes

Navigation, $5 NBN, HeNE27a.
Union and Civilization, $5 NBN, HeNE27a.
$5 NBN, H316-342.
$10 USN, H483-491.
$20 NBN, H773-798a.
$50 NBN, H987-1012.
$100 NBN, H1184-1206a.

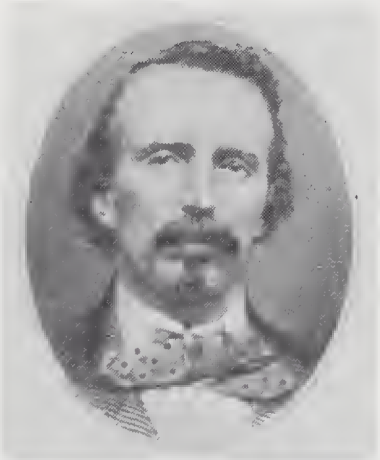
Stamps

Puerto Rico excise stamps, 50¢ & $1 *essais* (see *EPJ*, No. 182, p. 88).

SMITH, Sydney. *PEng.* b. 14 May 1901, d. 8 Aug. 1942. He began his employment at American BNCo on 5 June 1919; Smith became Assistant Chief Engraver ca. 1941.

Foreign Bank Notes

Canada
Arms of Nova Scotia (figures by S. Smith), $10, PS633.
Danson, Dudley, $5 (left), PS1033.
Dodds, Jackson, $10 & $20, PS559 & PS560.
Costa Rica
Carazo, Manuel J., 10 colones, P210.
Cuba



de Céspedes, C. Manuel, 10 pesos, P79.

French Indochina
Female with Straw Hat and Baskets (figure only), 50 piastres, P77.
Workers with Baskets (etched by H. Osborn; engraved by S. Smith), 100 piastres (back), P78.

German Federal Republic
Justice, Labor & Art, 10 marks, P5.
Iran
Arms of Persia, 5-1,000 rials (backs), P24030; 5-500 rials (backs), P18-23.
Scroll work, 100 rials (face & back), P22.

Mexico
Gypsy Girl, 5 pesos, P705A & P713-714A.
Zaragaza-Gral, Ignacio, 50 pesos, P707.
Spain
Lopez, Vincente (eng. with W. Ford), 25 pesos, P81.

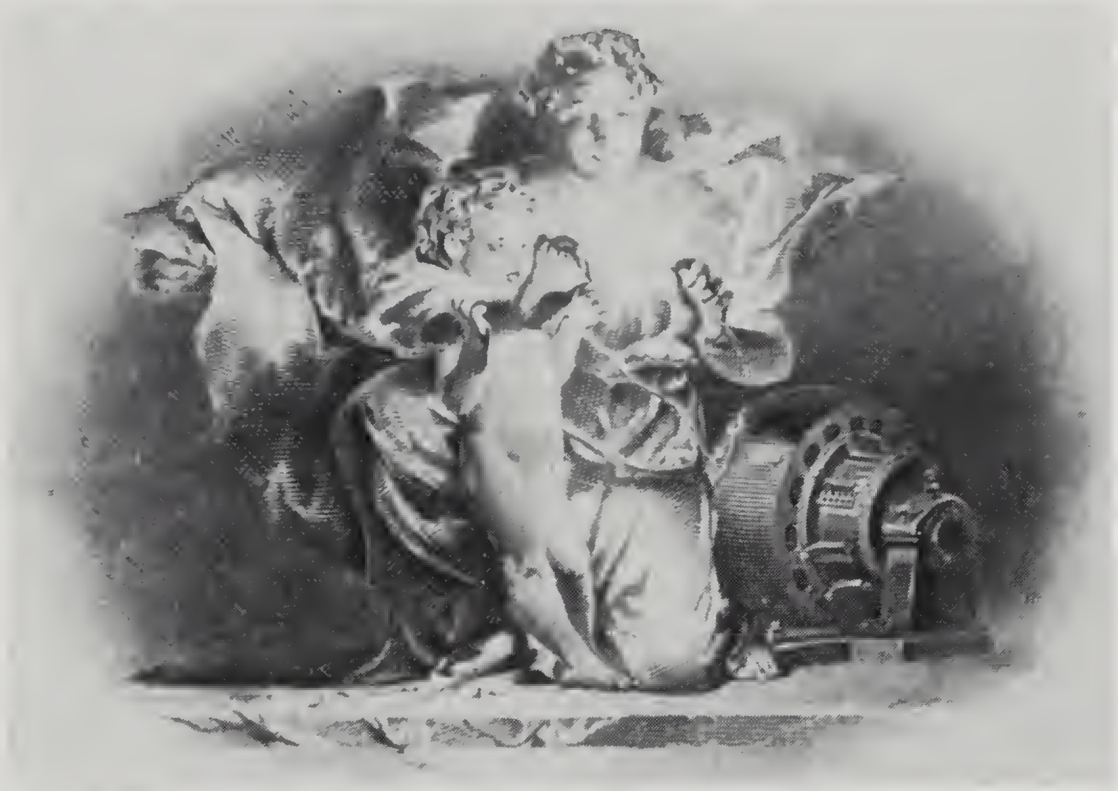
Corporate Bonds

Commercial Progress (art by A. Foringer), U.S. Rubber Co.
Agriculture (art by F.S. Bradford), Republic of Columbia (1940).
Electric Generation: Edison Electric Illuminating Co., Boston (1935); PA Water & Power Co. (1940).
Engineering No. 1 (seated man), City of Milan, Italy 5½% (due in 1978).
Female Head: Atchison, Topeka & Santa Fe Railway (1945); Buffalo General Electric Co. (1931); Hackensack (NJ) Water Co. (1931).
Justice (supported by) *Labor & Art* (art by G.W. Edwards), Chicago District Electric Generator Co.
Munich City Arms, Germany (1925).
Pioneer Spirit (faces only; see W. Adolph & L. Delnoce).

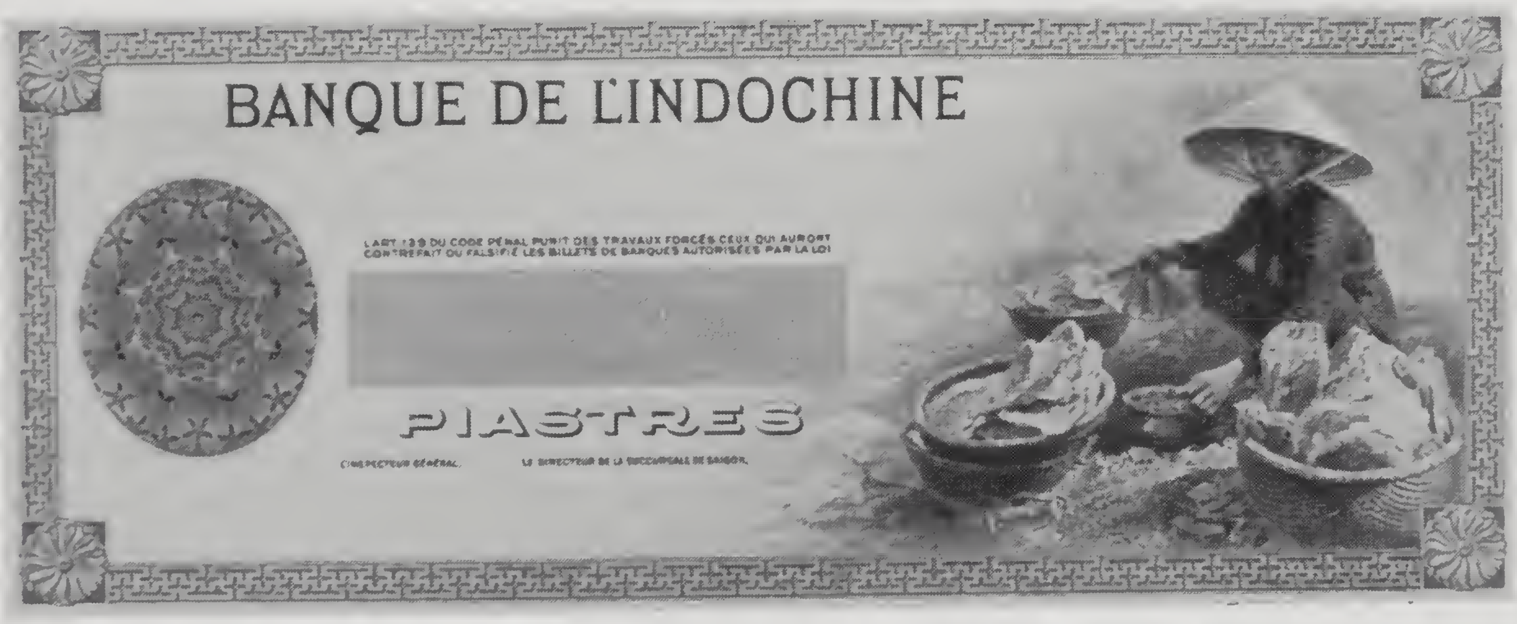
Stock Certificates

Baldwin, Matthias W., Baldwin-Lima-Hamilton Corp.
Agriculture (art by F.S. Bradford), Interstate Bakeries Corp. (1964).
Agriculture No. 4 (art by A. Foringer), Albertson's Inc.
Chemistry (seated man), Armstrong Paint & Varnish Works, Inc. (1960).
Electricity, Commerce & Science, Textron, Inc.
Hathaway, Mr. (eng. with R. Savage), Hathaway Manufacturing Co. (1925).

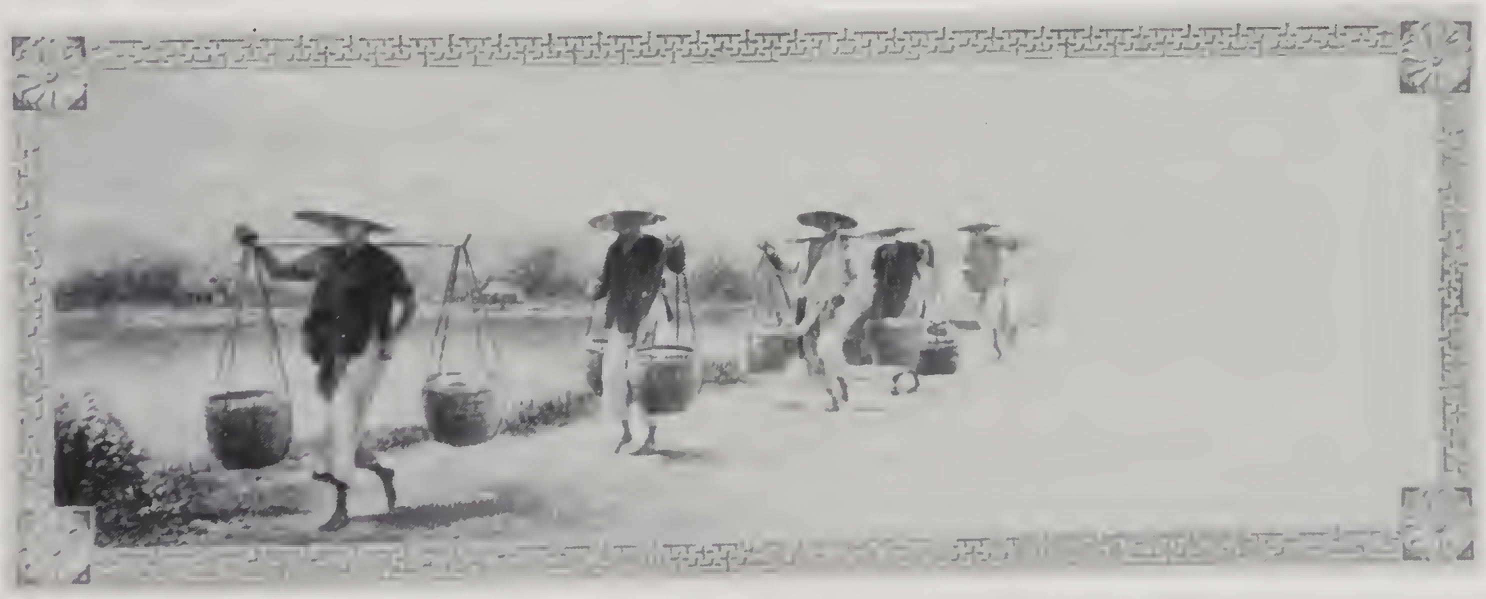
Engravings by Sidney Smith



Electric Generation on corporate bond.


BANQUE DE L'INDOCHINE
L'ART. 139 DU CODE PÉNAL PUNIT DES TRAVAUX FORCÉS CEUX QUI AURONT CONTREFAIT OU FALSIFIÉ LES BILLETS DE BANQUES AUTORISÉES PAR LA LOI
PIASTRES
L'INSPECTEUR GÉNÉRAL.
LE DIRECTEUR DE LA SUCCURSALE DE SAIGON.

Female with Straw Hat and Baskets, French Indochina 50 piastres, P77.



Workers with Baskets, French Indochina 100 piastres, P78.

Stamps

Canada
Princess Elizabeth, 1¢, A94.
Colombia
Minas de Oro, 10¢, A157.
Protection, 5¢ postal tax (1940).

Haiti
Vincent, Pres. S., 5¢ & 10¢, A49 & A50.
Honduras
Andino, T.C., 2¢, 6¢, 10¢ & 15¢, A49.
Liberia
Zebra Antelope, 5¢, A110.

Miscellaneous

Arms of New York City (1931), National City Bank traveler's checks.
Civilization (3 figures), Republic of Cuba cp. bd. (1941).
T.G. Masaryk; W.H. Taft; Woodrow Wilson, all in *Story of American Bank Note Co.*

SMITH, William D. *Eng.* b. ca. 1800. He might have studied with Peter Maverick. After working in New Jersey Smith did general engraving work in New York City where he might have engraved bank notes.

SMITH, William H. *Eng.* He was employed by the National BNCo as early as 1860. During his employment at NBNCo he is said to have worked for William Brockway. Smith could have prepared counterfeit plates for $1,000 bonds, HS125D or HX128J; he also worked on the authentic plate for HX128J at NBNCo. For his outside employer he counterfeited plates for the First Charter $100 National Bank of Pittsburgh notes, prepared by the ABNCo; these counterfeit notes were printed on authentic paper that was stolen. On 24 Oct. 1880 *The New York Times* reported the arrest of Brockway (alias Edward W. Spencer), Jasper Owens and William H. Smythe (sic) for the above offense. William H. and Charles H. Smith, unrelated, are often misidentified, one for the other.

SMITHER(S), James. *Eng & Seal Cutter.* b. London 1741, d. Philadelphia Sept. 1797. In England he was a gun engraver employed at the Tower of London. He came to America in ca. 1773. From then until 1778 he engraved bank note plates in Philadelphia, including Continental currency dated 1775. In a letter dated 11 Apr. 1778, Thomas Paine accused Smither of counterfeiting. On 25 June 1778 the Supreme Executive Council of Pennsylvania charged and claimed that Smither and others "knowingly and willingly aided and assisted the enemies of the state and the U.S. of America." Smither made use of plates for illegal use for the British against the U.S. He probably escaped to the protection of the British, but returned to Philadelphia by 1786. His son James, Jr. signed his name with and without "Jr." and his work is often confused with his father.

SNYDER, BLACK & STURN. This firm, at 92 William St. in New York City, prepared a 5-peso note for Panama, authorized on 28 Oct. 1861.

SOUTHERN BANK NOTE CO. This was the southern branch of American BNCo. (See James and Solomon Schmidt.)

SOUTHWICK and BARBER. They printed Rhode Island notes dated 1786.

SOUTHWICK, Solomon. *Pr.* b. Newport, RI ca. 1731, d. 23 Dec. 1797. In March 1768 he purchased the printing firm of Samuel Holland and continued to publish *The New York Mercury*. Although British troops were pursuing, he and his family escaped to Attleboro, MA. There, he set up a press but soon moved to Providence, RI to serve as commissary-general.

SPARROW, Thomas. *Eng.* b. ca. 1746. He worked in Annapolis, where he was probably born. In 1759 and went to Philadelphia to learn silversmithing. He returned to Annapolis in Sept. 1764 to work as a gold and silversmith and an engraver until ca. 1785. Until 1775 he was the only engraver below Mason and Dixon's line. "T. Sparrow, Sculp." is found on Maryland currency, e.g., $4, 1 Mar. 1770; $6 and $2/3, 10 Apr. 1774.

SPELLER, J. Ernest. *LtEng.* On 29 Oct. 1917 he transferred from the Chicago office of American BNCo to their New York facilities.

SPELLER, Harry E. *Sid. & GLO.* On 1 Nov. 1904 he began his apprenticeship at Western BNCo. He moved to American BNCo on 29 Oct. 1917; Speller resigned in 1925. He also engraved for Columbian BNCo. In Oct. 1928 Mr. Speller set up a security engraving department for Northern BNCo; in 1936 he became half owner of the company.

SPENCELEY, J. Winfred. *Eng.* b. Boston, MA 1865, living in 1905. His studies included art instruction at Tomasso Juglaris Art School in Boston. His career as a bank note engraver began in 1882 with J.A. Lowell & Co. In 1887 he was engraving under his own name. He was with the Western BNCo 1901-1903 and finally moved to Mexico City to engrave for E. Bouligny. In 1905 W.P. Tonesdell published a catalog of Spenceley's prints.

SPENCER, Asa. *Inv & Eng.* b. ca. 1800, d. England 1853. His apprenticeship probably took place under Gideon Fairman. His career began with Murray, Draper, Fairman & Co. After a trip to England (1817-1822) he returned to the U.S. where, after working alone, he was employed in 1825 by Fairman, Draper, Underwood & Co. and the succeeding firms until 1847. Spencer improved a medal ruling machine and was the innovator of other bank note manufacturing devices.

SPENCER, Asa, Jr. *Sid.* b. ca. 1815, d. ca. 1876. From 1839-1843 he was a partner with his father in Underwood, Bald, Spencer & Hufty. When his father died, the younger Spencer dropped "Jr." from his name.

SPOONER, Judah Paddock. *Pr.* His apprenticeship was under his brother-in-law, Timothy Green with whom a partnership was formed in 1773 in Norwich, CT.

SPOONER & GREEN. This partnership (J.P. Spooner and T. Green) was formed in 1773 in Norwich, CT. In 1778 they moved to Hanover, NH and in 1781 to Westminster, VT. They printed Vermont notes dated Feb. 1781.

STAFFORD, Jacques M. *PEng.* He began his apprenticeship at the Bureau of Engraving and Printing in 1928; he resigned in 1938.

STAIB, Arthur. *ScrpEng.* He began apprenticeship at American BNCo on 7 March 1929 but was let go on 2 July 1931. On 24 April he was rehired.

STANDFAST, A.H. *Trans.* After engraving at the Hamilton BNCo he moved to American BNCo on3 May 1913. Stanfast resigned in 1929 to join the Central BNCo. On 22 Oct. 1945 he returned to ABNCo.

STARR, E.D. *Pr.* He was working in New York City in the 1800s.

STAYNER, George H. *LtEng.* He was employed at American BNCo in the early 1860s. In 1880 Stayner was serving as treasurer of that company.

STECHER-TRAUNG LITHOGRAPH CO. In the early 1940s this San Francisco company was contracted to print Allied Military Currency for use in Japan. An "S," hidden in the design is the identifying mark of this company.

STEEL, Alfred B. *Trans.* b. Philadelphia 1860. Patent No. 92,593, dated 13 July 1869, an Improvement in Printing Revenue Stamps, is registered in the names of Steel and John Earle. He was employed at the Philadelphia office of American BNCo in the early 1860s.

STEEL, Charles F. b. Philadelphia 1832, d. ca. 1912. This entrepreneur, genius perhaps, supervised stamp production for Toppan, Carpenter & Co., the National BNCo, Continental BNCo and American BNCo. He left NBNCo on 1 Apr. 1873 and joined ContBNCo to set up a new facility for stamp production. Steel's contract was extended to 6 April 1877 when he became president of Franklin BNCo. Under his supervision, and with the use of his Patents Nos. 86,952 and 169,125, the company was able to underbid all competitors. In 1880 he sold his shares in this company to W.C. Smillie and George H. Stayner. Between 1877 and 1889 he furnished the Bureau of Engraving and Printing with 18 power plate presses made by James Milligan. A *BEP Annual Report* included the following:

> The steam presses are now printing much more than one-third of the work of the Bureau with a great economy of room, labor and expense. The cost of the printing done by them is less than $80,000. To print the same work by hand would cost $180,000.... The Knights of Labor of North America, fearful of 'automation' demanded that 'all Government securities, notes, bonds, checks, and stamps shall be printed in the highest style of the art of plate printing from hand-roller presses....

The improved presses were shut down on 30 June 1889. When the last large-size, national bank notes were printed on 7 Aug. 1929, 50 hand-presses, the last of 585, were dismantled. At that time there was a total return to the use of power presses.

STEEL, James W. *PEng & PtEng.* b. Philadelphia 1799, d. Philadelphia 30 June 1879. He studied under Benjamin Tanner, a member of Tanner, Vallance, Kearney & Co. When the firm dissolved in 1830, Steel was employed by George Murray. He engraved for *Sartain's Magazine.* He was one of four independent bank note engravers listed in the *Philadelphia Directory.* Bank notes issued by the Cuyahoga Falls Real Estate Association (1838) bear the imprint "James W. Steel, Philad."

STEIMELE, Edward Charles. *PtEng.* b. Berlin, Germany 15 December 1863, d. NY(?) 15 January 1892. At age seven he came to the U.S. with his family. They settled in Boston where he was educated and demonstrated a talent for drawing. With a moderate amount of engraving experience Steimele came to New York City ca. 1886 and submitted a design to American BNCo: he was engaged almost immediately and remained until 1890. In 1889 the Bureau of Engraving and Printing offered to double his salary: he refused.

Foreign Bank Notes

Bolivia
Locomotive, 5 bolivianos, PS232.

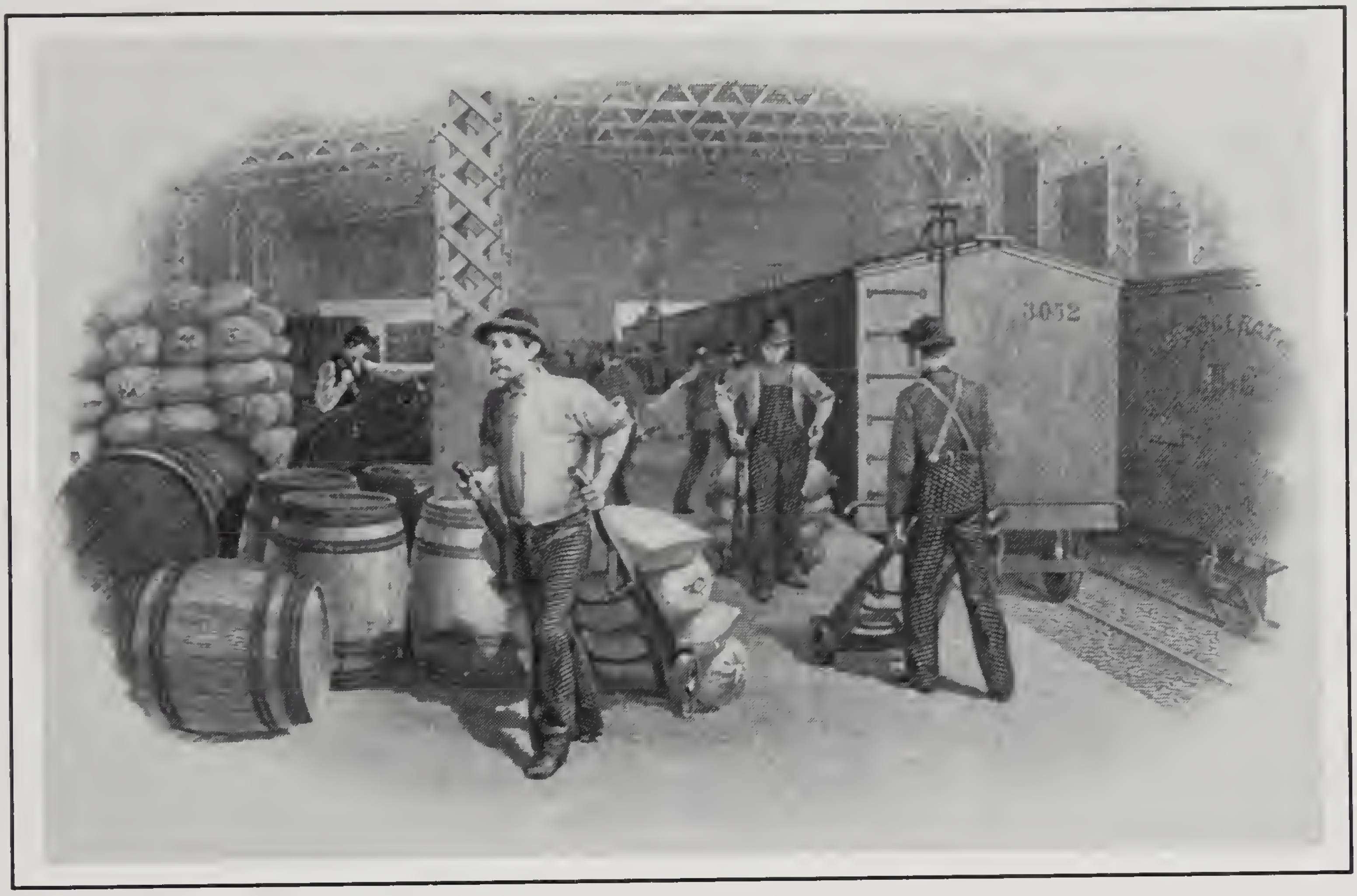
Canada
Bank of Montreal: $10 (back), PS523;
$50 (back), PS525.

Chile
Banco de Curico, 20 pesos, PS220.

El Salvador
Banco Occidental, 50 pesos, PS179.

Paraguay
Schmied, A., 5 pesos, PS163.

Corporate Bonds



Freight Depot: Atchison Topeka & Santa Fe Rwy (1895); Chesapeake & Ohio Rwy (1892); Chicago & Northwestern Rwy (1897); Mexican Central Rwy (1897).
Freight Depot (different than preceding), NY, Lake Erie & Western RR Co. 5% gen. mort. cp. bd. (1894).

Miscellaneous

Prairie Chicken, Western Tube Co. letter head (1891).

Works at Newark, Murphy Varnish Co. stock cert. (1891).

STEURER, Louis A. *Eng.* He was working in the 19th century.

STEVENS, R. This siderographer was employed at the Bureau of Engraving and Printing in 1951.

STEVENSON, John S. *Des & LtEng.* b. Snow Hill, MD ca. 1850, d. ca. 1890. When very young he was engaged by the Philadelphia office of American BNCo where he became Foreman of the Letter Engravers in 1886; later he was transferred to the New York office. Still later he worked for E.A. Wright Co. and Dreka, both in Philadelphia. Stevenson's designs revolutionized bonds and stock certificates.

STEVENSON, J.S. *Eng.* b. Pennsylvania 1881, d. 7 March 1941. He joined the Bureau of Engraving and Printing on 8 March 1920. He resigned on 15 Aug. 1922 to join American BNCo. Stevenson also engraved for the British American BNCo.

STEWART, Daniel. *Trans.* He was employed at American BNCo in 1911.

STEWART, Robert. *Trans.* d. 5 April 1920. He was employed at American BNCo in 1864. After a period at the Bureau of Engraving and Printing Stewart joined the Chicago office of ABNCo in 1880; on 3 June 1918 he returned to their New York facilities.

STILES, Samuel. *Eng.* b. E. Windsor, CT 15 July 1796, d. NYC 3 Apr. 1861. He served his apprenticeship under Abner Reed and in 1821 joined his teacher in the firm of Reed & Stiles. In 1821 he moved into another partnership with Vistus Balch in Utica, NY. Stiles moved to New York City in 1828 and engraved independently before he was affiliated with the following bank note companies: Balch, Stiles & Co. (1829-1830); Balch, Stiles, Wright & Co. (1831-1832); Samuel Stiles & Co. (1834-1835); Stiles, Colton & Co. in 1836; Stiles, Sherman & Smith (1837-1839). By 1841 Stiles was with Danforth, Underwood & Co., and remained with succeeding firms until 1858. He finished his career with the National BNCo.

STOCKMAR, Robert. *LtEng.* He was employed at the Columbian BNCo.

STODDARD, A. This Hudson, NY printer printed small change notes for the New York Genesee Co. dated 10 Sept. 1790 and George & Thomas Hale of Catts-kill (sic) dated 6 February 1792.

STOKES, E.S. *Trans.* After working at the Western BNCo and the Bureau of Engraving and Printing he went to the Chinese Bureau of Engraving and Printing in China, probably at the request of William Grant and Lorenzo Hatch who went there after 1908.

STOUT, James. *Eng & D-S.* b. NYC 1809, d. NYC 26 Apr. 1860. He was working in New York City from 1834 to 1838.

STRAIN, _____. *Trans.* (see Amendt.)

STRICKLAND, William. *Art, Des & Eng.* b. Philadelphia 1787, d. Nashville, TN 7 April 1854. He studied architecture under Benjamin Latrobe. In 1809 he branched out into other artistic fields including bank note engraving, however, in 1820 he returned to architecture. Strickland designed the United States Mint, the second Bank of the U.S. and the State House in Nashville. His body is buried in a crypt under the State House in Nashville.

STROUSBURG (?), _____. *Eng.* He engraved for Rawdon Wright & Hatch ca. 1812.

STRUVE, Carly A. LtEng. He began his employment at American BNCo on 20 March 1909. Ultimately Struve became Superintendent of Engraving at ABNCo.

STUZZENBERGER, Augustus. He was employed at Security BNCo as a litho-stone engraver perhaps as late as 1949.

SULLIVAN, Owen. *Eng.* d. 1756. He "had his ears cropped and cheeks branded for counterfeiting at Providence (RI) in 1752; hanged at NYC in May 1756 for a repetition of same offense" (Groce 163).

SWANSON, _____. *Trans.* (see Amendt.)

SYPHAX (PORTER), Esther A. She joined the Bureau of Engraving and Printing as a printers' assistant on 20 Nov. 1917. She is not related to Esther Porter the designer.

SZEGO, Paul S. *Des.* He was employed at the Hamilton BNCo and Central BNCo before 1930.

T

TANNACK, ____. *Trans.* (see Amendt.)

TANNER, Benjamin. *Eng.* b. NYC 27 Mar. 1775, d. Baltimore, MD 14 Nov. 1848. He learned engraving from Peter R. Maverick and Peter C. Verger. He was in New York City until 1799 when he moved to Philadelphia where he worked until 1820. Tanner engraved for Tanner, Vallance, Kearney & Co. and their succeeding firms. He withdrew from engraving in 1835 after he invented stereographing, a method of producing checks and blanks for bank notes. An 11 Aug. 1837 advertisement in Bicknell's stated that he had prepared "STEREOGRAPHIC NOTES...which cannot be imitated or altered without immediate detection. The losses which institutions as well as the public sustains, are obviated by procuring NOTES which cannot be imitated by every apprentice in a printing office, as is the case with most of the small notes now in circulation."

TANNER, Henry Schenck. *Eng.* b. NYC 1786, d. NYC 1858. He studied with his brother Benjamin. He devised a process of engraving that placed white lines on a black background to discourage counterfeiting.

TAPPAN, Ebenezer. *Eng.* b. Manchester, MA 11 Sept. 1815, d. 25 Jan. 1854. He was in Boston from 1838-1854, with the Boston BNCo from 1841-1842 and Tappan & Bradford from 1849-1854.

TAYLOR, Arthur. He studied at the Franklin Institute and at 15 was apprenticed to E.A. Wright & Co. in Philadelphia. With Baldwin S. Bredell he prepared counterfeit plates of the 1891, $100 silver certificates for William M. Jacobs. While in Moyamensing Prison, Taylor and Bredell made a $20 plate and 150 bills from the plate; the notes were smuggled out put into circulation.

TAYLOR, T. *Eng.* He was working in New York City about 1860 and might have engraved bank notes.

TECHNIGRAVURE Co. This New York City company "was apparently seeking contracts to produce currency...the text on a (business) card reads, 'Bank Note and Commercial Engraving and Printing – Bank Note Plates Engraved Only on Condition that They Remain in the Custody of this Company" (Shafer, July, p. 18).

TERRY, William D. *Eng.* d. 1858. He was working in Providence, RI from 1830-1836. He joined Oliver Pelton in 1836 to form Terry, Pelton & Co.; this company merged with the NEBNCo. From 1843 until his death, Terry was in Boston. The imprint of Terry, Pelton & Co. appears on the Naumkeag Bank, Salem, MA $1 note, 18__.

TEUBNER, George D. *Eng.* At one time he was employed by C.C. Wright in New York City.

TEW, Ann. In 1765 Ms Tew, who lived in Lancaster, PA, was found guilty of altering Pennsylvania 2 shilling notes to higher denominations. For this she was fined £100, "pillored, (had her ears) cropt and whipped (with 31 lashes)." One year later she was convicted of altering 1 shilling notes to 10. She received the same punishment, most of it anyway.

TEW, David. *Eng.* On 28 Oct. 1788, payment of $213 50/90 for three copperplates for bills of exchange and for repairing of two was due to David Tew (*JCC*).

THACKARA, James. *Eng.* b. Philadelphia, PA 12 Mar. 1767, d. Philadelphia 15 Aug. 1848. He served his apprenticeship under James Trenchard. From 1791 to 1797 Thackara was a partner with John Vallance in Philadelphia. As late as 1817 he was located at 35 Spruce Street.

THACKARA, William W. *Eng.* b. Philadelphia, PA 9 Feb. 1791, d. 19 Apr. 1839. Between 1818-1824 he was working in Philadelphia. He is the son of James Thackara.

THIEMER, Emie. *Trans.* (see Amendt.)

THOM, Robert. *Art.* b. ca. 1914. His illustrations for *Great Moments in Medicine* prompted engraver Joseph Keller to recommend his work to American BNCo. It is uncertain if he produced anything for ABNCo.

THOMAS, Moses. *Eng.* He engraved for Rawdon Wright & Hatch ca. 1812, and is credited with a portrait of *Judge Parsons.*

THOMAS, George Housman. *Art & Des.* b. London 1824, d. Boulogne, France 1868. He "came to make illustrations for an American (news)paper in New York, and also to supply designs for American Bank Note Co." (Bryan 565).

United States Obsolete Bank Notes

Charlie's Sailor: Howard Bank, Boston, MA $2; Louisiana Citizens Bank, New Orleans $50.
Waiting for the Tide (F. Girsch engraver), Commercial Bank of Bristol, RI $2.

Foreign Bank Notes

Canada
Charlie's Sailor, $4, PS846.
Chile
Running Horse (eng. C. Burt), 10 pesos, PS208.
Mexico
River Source (eng. C. Burt), 20 pesos, PS421.
Mexico
Sailor & Capstan (eng. by T. House), 20 pesos, PS410.

Uruguay
Running Horse (eng. C. Burt), 1 peso, PS353.

THOMPSON, _____. *Eng.* He was employed at American BNCo about 1887.

THOMPSON, Bradbury. *Art, Des. & Mod.* b. Topeka, KS 25 March 1911. This name is synonymous with modern U.S. postage stamps. Mr. Thompson has designed and modeled over 100 stamps. He holds degrees from Washburn U. and the Rhode Island School of Design. Positions held include Art Dir. at the Office of War Information, 1945-1959, and *Mademoiselle Magazine*; Design Dir. for *Art News* and the *Art News Annual*, and designer for the *Smithsonian Magazine* in 1969. His articles have appeared in the latter and *Town and Country*; he is also the author of *The Art of Graphic Design*. Mr. Thompson has received awards from the National Society of Arts Directors, the American Institute of Graphic Arts, the Art Directors Club Hall of Fame and the Rochester Institute of Technology. He is a member of the Society of Illustrators, the American Institute of Graphic Arts and the Citizens Stamp Advisory Committee.

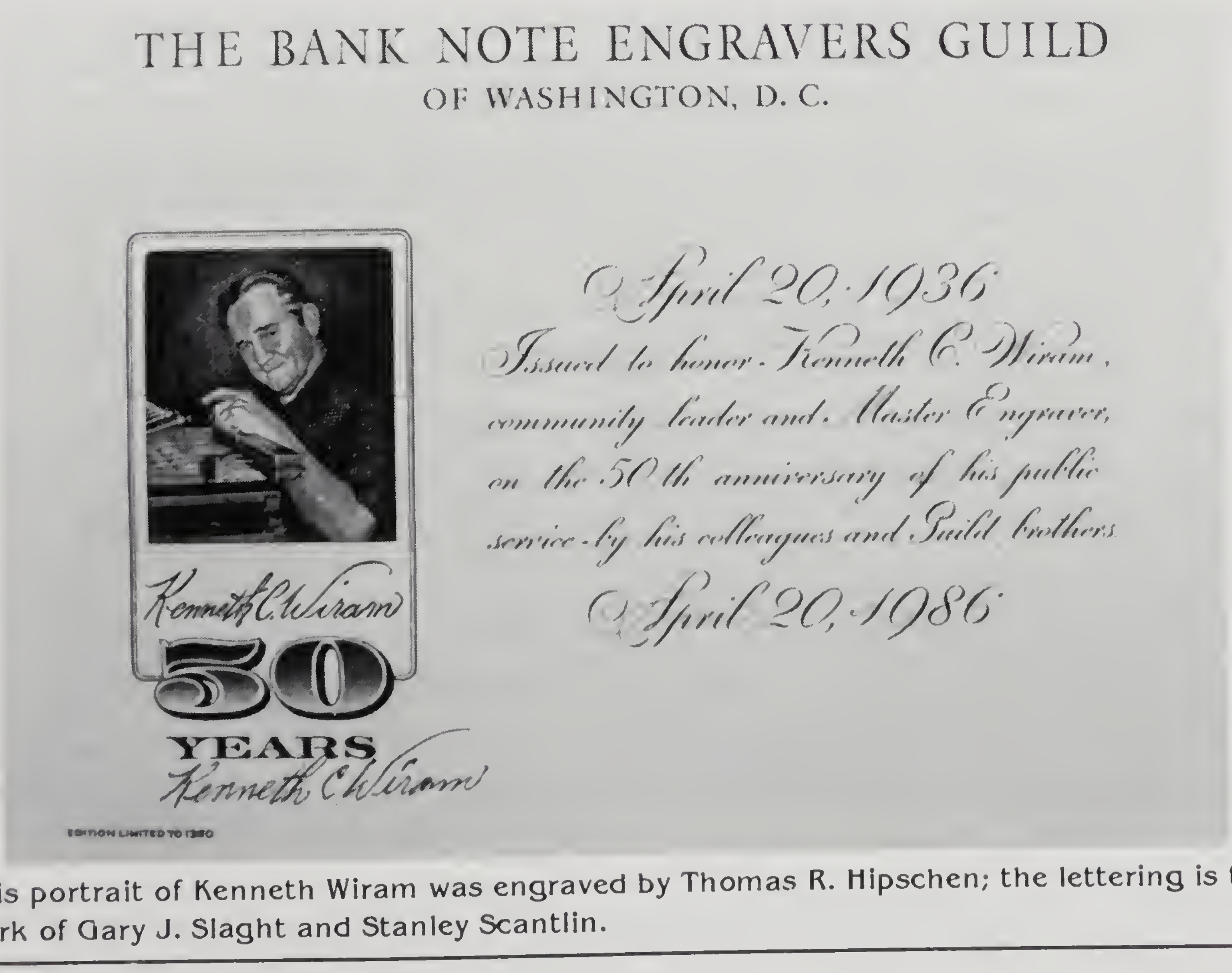
THOMPSON, Isaac. *ScrpEng & LtEng.* He was with the Security BNCo ca. 1883, perhaps as late as 1920.

George W. Thurber

John Wallace, Jr.

Frank J. Waslick

Edward M. Weeks



THE BANK NOTE ENGRAVERS GUILD
OF WASHINGTON, D. C.

Kenneth C. Wiram

50
YEARS

Kenneth C. Wiram

EDITION LIMITED TO 1350

April 20, 1936
Issued to honor Kenneth C. Wiram,
community leader and Master Engraver,
on the 50th anniversary of his public
service by his colleagues and Guild brothers
April 20, 1986

This portrait of Kenneth Wiram was engraved by Thomas R. Hipschen; the lettering is the work of Gary J. Slaght and Stanley Scantlin.

THOMPSON, Otis Stuart, Sr. *PEng.* b. 1870, d. 19 Sept. 1944. He served his apprenticeship with Thomas A. Bradley, founder of the Security BNCo. For the latter company Thompson executed ornamental engraving and designed postage stamps, e.g., Cuba, 1917. He engraved the *William Penn Peace Treaty with the Indians;* the painting, by Benjamin West, hangs in the Pennsylvania Academy of Fine Arts. About 1921 this engraver also engraved an American bison based on the same model that was used for the $10 note, H483-491.

THORNHILL, D. *LtEng.* His employment at American BNCo began ca. 1911; he left ABNCo on 3 August 1918.

THURBER, George W. *LtEng & OrEng.* b. 1821, d. ca. 1901. He was in New York City in 1860. In 1867 he became treasurer of the Manhattan Engraving Co. After 1867 he was with American BNCo as Chief of the Engraving Division. By 1869 Thurber was at National BNCo and probably remained with ABNCo after consolidation. About 1882, with backing of Alexander R. Chisholm, he founded Hamilton BNCo and was the first vice-president, nevertheless, he continued to engrave. "Thurber was to be paid $30 a week for one year as superintendent of the engraving, transferring and plate printing departments as well as engraver, beginning Sept. 10, 1885" (*EPJ 45*, 2, p. 55).

TICHENOR, Cy. *LtEng.* He was employed by the Homer Lee BNCo ca. 1900. Tichenor was with American BNCo as late as 1911.

TICHENOR, C.D. *Trans.* He was employed at American BNCo in the early 1860s.

TICHENOR, Frank D. *Trans.* d. 2 July 1943. Formerly with International BNCo he was employed at American BNCo from 29 July 1896 until 1 Aug. 1939.

TICHENOR, George. *GLO.* He was working with Danforth, Bald & Co. in 1851.

TIEBOUT, Cornelius. *Eng.* b. NYC ca. 1773, d. New Harmony, IN 1832. He served his apprenticeship with John Burger, a New York City silversmith. During 1789 & 1790 Tiebout engraved book illustrations. In 1793 he went to London to study with James Heath and remained until 1796. In 1799 he moved to Philadelphia. From 1817 to 1824 he was affiliated with Tanner, Kearney & Tiebout. Stauffer said that he is "The first American-born engraver to produce really meritorious work" (I: 271). A portrait of *John Jay*, after Gilbert Stuart, demonstrates this claim.

TIFFANY and WANDS. They printed small change notes dated 1792 for the Lansingburgh Museum in New York. Twenty-seven merchants pledged to accept these (Newman 278).

TIMOTHY, Peter. *Pr.* He printed South Carolina notes dated 6 Mar. 1776 (denominations to £3). He succeeded his father Louis Timothée as printer to the colony of South Carolina. Like so many other printers he was arrested for printing a personal opinion.

TISDALE, Elkanah. *Des & Eng.* b. Lebanon, CT ca. 1771, d. 1835. From 1794-1798 and again in 1809 & 1810 he worked as an illustrator in New York City. He settled in Hartford and founded the Hartford Graphic & Bank Note Engraving Co; he designed for this company.

TOPHAM, Ralph E. *Eng.* He was employed at E.A. Wright BNCo.

TOPPAN, Charles. *LtEng.* b. Newburyport, MA 10 Feb. 1796, d. Florence, Italy 20 November 1894. He studied with Gideon Fairman before going to London with his teacher, Jacob Perkins and Asa Spencer in 1818. He returned to NYC in 1825 and moved to

Philadelphia two years later. In 1829 Toppan was engraving independently. In 1835 he founded Draper, Toppan, Longacre and Co., but withdrew in 1844 to form Toppan, Carpenter & Co. (TC&Co). From 1851 to 1854 J.W. Casilear joined them to form Toppan, Carpenter, Casilear & Co. Although Toppan became president of American BNCo in 1858, he probably kept his affiliation with TC&Co because the U.S. government stamp contract remained in effect until 1861. Many of the TC&Co dies and rolls went to the new firm of Butler & Carpenter. Other postage dies eventually went to the Philadelphia BNCo. Charles Toppan was a cousin, twice removed, of Jacob Perkins.

TORWEDO, Robert. *LtEng.* He was with the Western BNCo from 1892 to 1904. He became the vice-president of the Lincoln BNCo when it was formed in 1914; the following year it merged with the Columbian BNCo. He might have engraved for American BNCo, probably before 1892.

TRACY, _____. *PEng.* He was employed at Republic BNCo during the early 20th century.

TRENCHARD, James. *Eng & D-S.* b. 1747. A pupil of James Smither, Trenchard moved from New Jersey to Philadelphia where he worked from 1777 to 1793; he was living in 1794. Trenchard was affiliated with the *Columbia Magazine.* He is the grandfather of James Thackara.

TUCKER, William E. *Eng.* b. Philadelphia, PA 1801, d. Philadelphia 1857. This student of Francis Kearney was listed in Philadelphia Directories from 1823 to 1845. He went to England for a while, there he signed his work "Engraved in London by W.W. Tucker." The latter part of his career was devoted to bank note engraving. Two notes for the Bank of Vicksburg, MS were prepared by W.E. Tucker. The $50 note has the ship, as seen on the $20 note, on both left and right sides; a dock scene with a seated female figure is in the center.

TURNER, James. d. Philadelphia, PA Dec. 1759. He was working in Boston as early as 1744 and moved to Philadelphia ca. 1757. This American-born engraver did a variety of work including the engraving of "copper plates for the rolling press, stamps in brass and pewter for the common printing press, coats...on gold, silver, copper, brass or pewter." He also made "seals in gold, silver or steel (and)...steel stamps...." (Stauffer I: 278).

TYLER, Frank. *Eng.* He was employed at the Homer Lee BNCo about 1900.

U

UNDERWOOD, Thomas. *Eng.* b. 1795, d. Lafayette, IN 13 July 1849. He was engraving in Philadelphia from 1823-1842. He was first affiliated with Fairman, Draper, Underwood & Co. from 1823 to 1827. Six successive firms, all with his name, brought him ultimately to Danforth, Underwood & Co. (1839-1843).

UNITED BANK NOTE CORPORATION. On 20 February 1906 this company was incorporated for the purpose of purchasing stock in American BNCo.

UNITED STATES BANK NOTE CO. This company operated from 1865 to 1867 at 71 Broadway in New York City under Alfred Jones, who was president. It was probably absorbed by the Manhattan Engraving Co.

UNITED STATES BANK NOTE CO. From 1876 to about September 1877 this company operated at 32-34 Church St. in NYC. Founder and president was Augustine L. Helm; Charles H. Smith was vice president; T.C. Kenworthy was treasurer; "Henry Belden, Jr. was made secretary at the request of Jay Gould" (Altman, 194, p. 101). A large, bogus stamp order from a Latin American country in 1878 could have put USBNCo out of business.

UNITED STATES BANKNOTE CO. This company was formed in 1986 by United States BNCorp who owns 75% of the stock.

UNITED STATES BANKNOTE CORPORATION. This corporation evolves primarily from the Thomas A. Bradley Co., founded in 1874. The name was changed to Security BNCo in 1903. The Republic BNCo was acquired in 1942 and the Hamilton Bank Note Engraving Co in 1951. Six years later the Security BNCo and the Columbian BNCo consolidated to form the Security-Columbian Banknote Co. The present corporate title, United States Banknote Corporation, was adopted in 1965. Printing plants are located in Horsham, PA, Bedford Park, IL, Los Angeles, CA and Singapore. USBNCorp is the parent company of Security-Columbian BNCo, Jeffries BNCo, and American BNCo. The latter two were acquired in 1989 and 1990 respectively. Currently USBNCorp operates its security printing operations as American BNCo.

V

VAIL, James T. *LtEng.* b. Solomons Island, Calvert County, MD 4 April 1907, d. 25 November 1950. He was educated in Washington, DC, including art studies at the Corcoran Gallery School of Art. At some time he engraved for E.A. Wright BNCo. Vail joined the Bureau of Engraving and Printing on 2 May 1925; he resigned on 11 May 1929. Mr. Vail was with Quayle & Son, Albany, NY from 1929 to 1932 and the Geodetic Survey as Artistic Lithographer from 1932 to 1936. The BEP reengaged him on 1 July 1936; in 1944 he became Assistant Superintendent. Vail engraved over 60 postage stamps.

VALLANCE, John. *Eng.* b. Scotland ca. 1770, d. Philadelphia 1823. He moved to Philadelphia in 1791 and did general bank note engraving before he became a member of Tanner, Vallance, Kearney & Co. The Bank of the Potomac, DC notes bear the Vallance imprint. His name also appears on an advertising note (see John Meer).

VALLEAU, Carl F. *LtEng.* He was employed at American BNCo from 26 Jan. 1925 until 12 July 1934.

VALLET(T)E, Edwin F. *LtEng.* b. Philadelphia ca. 1829. It is uncertain if he engraved bank notes.

VALLET(T)E, James. *Eng.* b. Philadelphia. He is the brother of Edwin F. Vallet(t)e. It is uncertain if he engraved bank notes.

VALLETTE, Ralph Leidy. *ScrpEng.* b. Philadelphia, PA 16 Nov. 1875, d. 16 Feb. 1937. On 12 June 1916 he came to American BNCo in New York from their Philadelphia facilities;

he resigned on 2 Sept 1916. Vallette also engraved for Dreka Co. and E.A. Wright BNCo. He began his employment at the Bureau of Engraving and Printing 20 Sept. 1920. Vallette resigned on 1 Oct. 1921 but returned on 1 June 1922 and remained there until his death.

VANDINE, Elizabeth. "...with privity of her said husband (Henry) she counterfeited several bills of exchange of the Continental Currency" (*JCC*, 7 June 1776).

VAN HOUTEN, J.E. *LtEng.* He engraved for Danforth, Bald & Co. and later American BNCo.

VAN NESS, George. *ScrpEng & LtEng.* d. 1 April 1943. He was employed at American BNCo from ca. 1887 until 9 Oct. 1911; from 12 April 1913; and finally from 14 April 1919 until 1935. Van Ness was with Hamilton BNCo in 1913.

VAN NESS, M.E. He was a Superintendent of the Transfer Division at American BNCo. He came to ABNCo on 22 May 1876; he accepted his pension on 5 Nov. 1936.

VAN NOTEN, Jean. *Art.* b. ca. 1904. Between October, 1952 and April, 1957 he was under contract to American BNCo.

VERBECK, George J., Sr. *PEng.* b. 1849, d. 1922. From Wisconsin he went to Chicago to study with Walter Shirlaw who was with the Western BNCo. In 1871 he joined American BNCo in New York City, but, returned to the WestBNCo in 1874. During his time at ABNCo Verbeck made an engraving of the *North Saint Louis Savings Association* building; the use is uncertain. He also engraved for the Columbian BNCo. Verbeck was the first American to win a gold medal for steel engraving at the International Exposition in Paris in 1900. Mr. Verbeck retired in 1915.

Foreign Bank Notes

Argentina
Arms of Argentina, 100 pesos, PS657.
Bolivia
Mountain Scene, 1 peso, PS186 & PS191.
Peasant Man, 1 peso, PS186.
Peru
Coin sol (art by J.D. Smillie), 1 & 2 soles, PS321 & PS322.
Llama Train, 5 soles, PS333 and 20 soles, PS315.

VERBECK, George, Jr. *PEng.* b. 1870, d. 1956. He served his apprenticeship with his father at Western BNCo. He was employed by American BNCo (1892), the Republic BNCo. in Pittsburgh (1904) and the Columbian BNCo (1905). In 1945 Verbeck was engraving in the Chicago office of ABNCo.

VERDINI, M. *Art & Des.* b. Williamsport, PA 18 March 1953. He earned a baccalaureate degree from the University of Pennsylvania. After working as a free-lance artist Mr. Verdini joined American BNCo in 1980. In 1985 he moved to the United States BNCorp where he has created a variety of designs for security instruments.

VERGER, P.C. *Eng.* He was born in France but was active in New York City before 1895. Benjamin Tanner was a pupil, nevertheless, it is uncertain if Verger engraved bank notes.

VERMILL, C. *Trans.* He was employed at the Bureau of Engraving and Printing ca. 1900.

VERNON, Samuel. He printed Rhode Island notes dated 5 July 1715 and 14 June 1726, (redated 1728, 1731, 1733 & 1738).

VERNON, Samuel, Jr. Due to his father's illness he assumed the responsibility of printing Rhode Island notes dated 15 Aug. 1737.

VERNON, Thomas. *Eng.* b. Staffordshire, England ca. 1824, d. London, England 23 January 1872. He studied in London and Paris and came to the U.S. ca. 1853 and engraved bank notes. He returned to England in 1856.

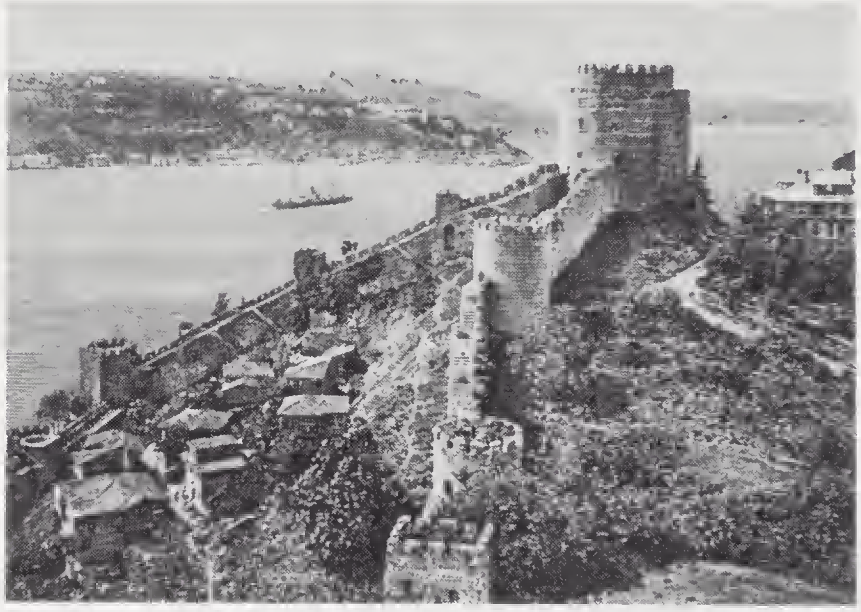
VINOKUOROFF, George. *Eng.* He was employed at the Bureau of Engraving and Printing in the 1940s.

VOELKER, Ferdinand. *Prv.* d. 26 April 1946. He began his employment at American BNCo on 25 Nov. 1903.

VOGEL, Arthur C. *PEng.* b. 1893, d. 1959. He came to American BNCo on 15 Feb. 1913 and left ca. 1946 to do free-lance work including work for E.A. Wright BNCo.

Foreign Bank Notes

Brazil
Cultura Nacional (etched by J. Keller), 100 cruzeiros (back) P138, P146, P162 & P170.
China
Single Engine Plane, 25 yuan, P160.
The Depot (portion of), 100¢, P122.
Costa Rica
Puente de la Garita, 5 colones, P209.
Curacao
Curacao Flag, 50 gulden, P28.
French Indochina
Angkor Wat Frieze, 100 piastres, P78
Greece
Griffin, 5,000 drachmai (back), P103.
Iran
40 Pillars Palace, 50 rials, P21.
Luxembourg
Arms of Luxembourg, 100 francs, P39.
Mexico
Banco de Mexico, 100 pesos (back), P708.
Palacio Nacional (eng. with H. Osborn), 10,000 pesos, P722.
Turkey
Goats, 50 lira (back), P82.
Machine Shop, 500 lire (back), P85.



Rumeli-Hissar Fortress, 100 lira (back), P89.
Scroll work, (backs): 50 rials, P21; 500 rials, P23.

Corporate Bonds

Alexander G. Bell, AT&T cp. bd (1947).
Dynamo (art by A. Foringer): Tokyo Electric Co. (1925); Northern PA Power Co. (1926), both cp. bds.
Female & Dynamo, Broad River Power Co. cp. bd. (1925).
Railroad Depot: Morris & Essex RR Co. reg. & cp. bds. (1929); Seaboard All Florida Rwy Co. (1925).
St. Louis (city), City of St. Louis cp. bd. (1923).
Tank Car, Union Tank Car Co. cp. bd.

Stock Certificates

Dog Sled Team, Hudson Bay Mining and Smelting Co., Ltd.
Harvest, Pacific Mills (1931).
Machinery, Timken Roller Bearing Co. (1923).
Silversmiths, Gorham Manufacturing Co. (1920).
Tank Car, Union Tank Car Co.
Train: American Arch Co. (1923); Lima Locomotive Works (1921).

Miscellaneous

Ecuador, commemorative 50¢ air mail stamp (eng. with R. Savage, 1937).
Flagship over Downtown New York, for Eaton Paper Co. (1939).
Haiti, Solomon, President, 5¢ stamp, A49.

W

WABST, Frank. This printer was employed at American BNCo as early as 1927.

WADE, E., Jr. He is a brother-in-law of C. Durand and was the probable plate printer at Durand, Perkins & Co. from 1828 to 1831.

WAIT, Thomas. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1812.

WALDON, (WELDON) _____. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1812.

WALKER, Hugh. This Wilmington printer printed North Carolina notes dated 15 May 1779.

WALL, William F. *LtEng.* Following employment at Franklin BNCo he joined the Bureau of Engraving and printing on 16 Feb. 1900; he retired from there on 31 Oct. 1936.

WALL, William F.B. *PlPr.* b. Washington, DC 5 Jan. 1864. He joined the Bureau of Engraving and Printing on 29 Aug. 1893; he resigned on 7 Sept. 1914.

WALLACE, John, Jr. *PEng & PtEng.* b. Brooklyn, NY 1 Oct. 1923. He joined American BNCo on 27 Sept. 1947 and worked under William F. Ford. During his career Wallace also did work for E.A. Wright BNCo, De La Rue BNCo (Philadelphia), Security BNCo, Federated BNCo and Northern BNCo. He moved to the Bureau of Engraving and Printing in 1960 where, in addition to postage stamps and other works, he engraved the official, large, presidential portraits of *Gerald R. Ford* and *Jimmy Carter*. Before retiring from the BEP in July 1987 Mr. Wallace engraved eight migratory bird stamps.

Stock Certificates

(Mr. Wallace engraved the primary subject on the following.)

Aetna Life & Casualty Co.
Aileen, Inc.
Air Products & Chemicals.

A.J. Industries, Inc.
Alaska Housing Finance Corp.
Allegheny Power System, Inc.

Stock Certificates
(continued)

American Bank.
American Medical International, Inc.
American Savings Bank.*
AMFAC.*
Anheuser Busch Companies.
Appalachian Power Co.
Arctic Enterprises, Inc.
Associated Coca-Cola Bottling Co.
Aurora Plastics Corp.
Bank of California.*
Barnett Mortgage Trust.*
Bell & Howell Co.
Bemis Co., Inc.
Berkey Photo, Inc.
B.F. Goodrich.*
Binney & Smith, Inc.*
Black Hills Power & Light Co.
Booth Newspapers, Inc.
Burnup & Sims, Inc.
Carteret Bancorp, Inc.
Champion Home Builders.
CHEMED Corp.
Conseco, Inc.
Consolidated Natural Gas Co.
Control Data Corp.
Cudahy Co.
Dayton Power & Light.
Deltona, The, Corp.
Diversified & Industries, Inc.
Dorr Oliver.
Eastern Air Lines, Inc.
Farah Manufacturing Co., Inc.
First Bank Systems.
First Financial Corp.
First Virginia Bank Shares Corp.
Foote Cone & Belding, Inc.
Gap, The, Inc.
Gateway Industries, Inc.
G.C. Computer Corp.
Genuine Parts Co.
Gould Inc.
Green Giant Corp.
Guardian Industries Corp.
Gulf Oil Corp.
Gulf States Utilities.
Gulton Industries, Inc.
Harrah's.
Hartford Steam Boiler.*
Hawaiian Electric Co.*
H. & R. Block, Inc.
Hildebrand Industries, Inc.*
Hoerner Waldorf Corp.
Holiday Inns, Inc.*
Honeywell, Inc.
Hoover Ball and Bearing Co.
Hospital Affiliates, Inc.
Hospital Corp. of America.
Indiana Bell Telephone.
Jakarta Growth Fund, Inc.
John Roberts, Inc.
Jostens, Inc.
Kemper High Income Trust.
Kentucky Fried Chicken.
King Resources Co.
Lane Bryant, Inc.*
Leslie Fay Companies, Inc.
Maple Press, The, Co.
McQuay-Perfey, Inc.
National City Lines.
National Lead.*
National Service Industries.
Neisner Brothers, Inc.
New York Telephone Co.
Northwest Bank Corp.
Ohio Bell Telephone Co.
Pabst Blue Ribbon Beer.*
Papercraft Corp.
Perfect Film & Chemical Corp.
Petrolane.
Public Service Electric & Gas Co.
Republic New York Corp.*
Republic Steel Corp.*
Rockwell International Corp.
Ryder System, Inc.
Sacramento Municipal Utility Trust.
Saint Regis Paper Co.*
Seaboard Coast Line Industries.
Signal Companies, Inc.
South Central Bell Telephone.
Southdown, Inc.
Standard Prudential United.
Sun Electric Corp.
Superior Electric Co.
Susquehanna Corp.*
SYSPO Corp.*
Texaco.*
TOSCO Corp.*
Union Fidelity Corp.
United Fruit Co.
U.S. Home Corp.
Van Kampen Merritt Income Trust.
VARO, Inc.
V.F. Corp.
Walter E. Heller International Corp.
Western Union.
Windmere Corp.*
Woodward Corp.
W.R. Grace & Co.

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* Security BNCo.

Miscellaneous

Agramonte, Ignacio, Cuba 10,000 pesos (eng. J. Hay; wreath and background eng. by J. Wallace), P85.

Ecology (seated female), use uncertain (NorthBNCo).

Man Panning Gold, uncertain use by Federated BNCo.

Renaissance Man, Chemical New York Corp., stock certificate (SecBNCo).

Roman Soldier (eng. by W. Ford; background eng. by J. Wallace), American Express travelers checks (ABNCo).

WALTER, Adam G. *PtEng.* b. Philadelphia 1820, d. 14 Oct. 1875. In 1844 he was probably a partner with Charles Welsh; ca. 1846 Walter was with Thomas Welsh.

WALTER, Adolph. *Des.* He was employed at Quayle & Son.

WALZ, Edward F. *LtEng.* He was employed at American BNCo from 13 June 1910 until 9 Sept. 1910 and again from 5 Nov. 1917 until 28 March 1919.

WAND, Alex. *Trans.* d. 30 Nov. 1941. Formerly with British American BNCo he came to American BNCo on 1 Feb. 1915 and began receiving his pension on 1 Sept. 1939.

WAPPENSTEIN, Joseph. *Eng.* He was in Sandusky, OH in 1853 and in Cincinnati as a bank note engraver in 1859.

WARD, W. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1812.

WARE, William P. *Trans.* In 1851 he was employed by Danforth, Bald & Co. and by 1859 at American BNCo.

WARREN, _____. *Eng.* This name appears in the records of the Republic BNCo.

WARREN, Asa Coolidge. *Des & Eng.* b. Boston, MA 25 Mar. 1819, d. NYC 22 Nov. 1904. This son of Asa Warren, painter and musician, served his apprenticeship with George Smith in Boston. He was with the New England BNCo in 1863 and was designing for the Continental BNCo in 1865. Poor eye sight caused Warren to discontinue engraving; he then began to work for the U.S. Government Printing Office.

WARREN, Robert H. "Pop." *LtEng.* b. England 1852. He joined the Bureau of Engraving and Printing on 1 June 1900 and retired on 30 June 1922. On 16 June 1925 Warren was employed at American BNCo; he resigned in 1930.

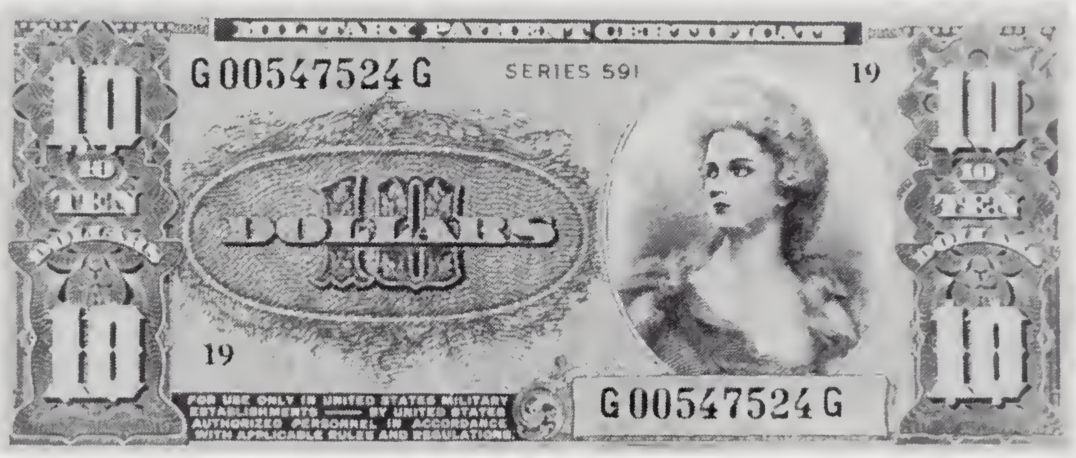
WARREN, Whitney. *Architect & Des.* b. 1854, d. 24 Jan. 1943. He designed the U.S. Special Delivery stamp of 1908.

WASSERBACH, Arthur. *PEng.* He was engraving at the Bureau of Engraving and Printing in 1901.

Miscellaneous

Female, Internal Revenue Flour stamp (1898).

Female Head, military payment certificates: Series 521, 25¢ (back); Series 541, 10¢; Series 591, $10; Series 661, $1.


MILITARY PAYMENT CERTIFICATE
G00547524G
SERIES 591
19
10
TEN
DOLLARS
10
19
FOR USE ONLY IN UNITED STATES MILITARY ESTABLISHMENTS — BY UNITED STATES AUTHORIZED PERSONNEL IN ACCORDANCE WITH APPLICABLE RULES AND REGULATIONS
G00547524G
10

WASLICK, Frank J. *Des. & Mod.* He began his employment at the Bureau of Engraving and Printing on 9 Oct. 1967. Mr. Waslick continues to design and model at the BEP.

WATSON, Ebenezer. *Eng.* In August 1838 he submitted a proposal to Urbana Banking Co., Urbana, OH as "A Protection Against Alteration of Bank Notes, Bills of Credit, Circulating Notes, Certificates of Stock and Other Instruments of Writing, by any Change of the Sum Thereof." (See "Ebenezer Watson of Albany" by Barbara R. Mueller, *The EPJ*, 156, p. 189.)

WATTS, James W. *Eng.* d. West Medford, MA 13 Mar. 1895. He was working as an engraver in Boston about 1848; later he joined American BNCo.

WAYSON, Charles A. *LtEng.* b. NYC 16 June 1885. He was employed by the Navy Department in the Hydrographic Division as Senior Artistic Lithographer in 1905. Wayson joined the Bureau of Engraving and Printing on 1 July 1925; he retired on 31 Dec. 1947.

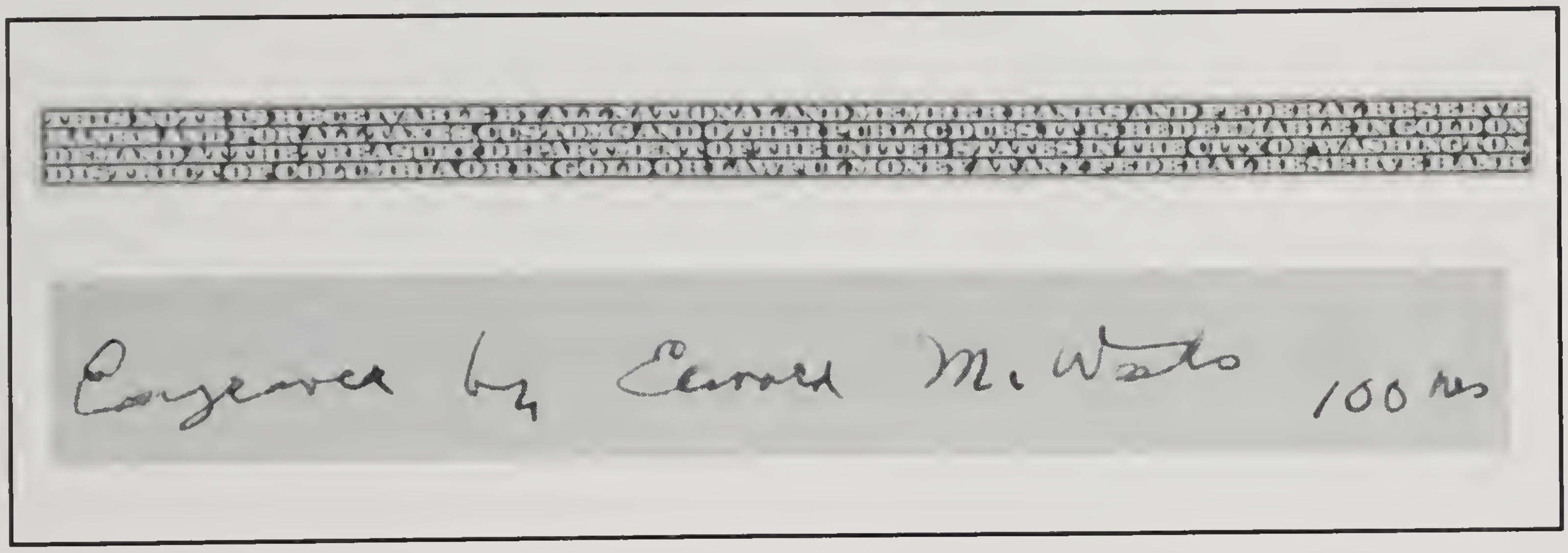
WAYSON, Edward B. *LtEng.* He was employed at the Bureau of Engraving and Printing from 20 Aug. 1924 until some time in 1938.

WEBB, Francis H. This company logo appears on a Romola Incorporated security.

WEBSTER, C.R.&G. This Albany firm printed small change notes for: Janes & Dole (31 Dec. 1790); Benijah Morris of Whitestone (15 Aug. 1792); John Prince (Jan. 1791); the New York German Reformed Church of Schohary; and other private New York issues.

WEEKS, _____. *ScrpEng.* He was employed at the Republic BNCo .

WEEKS, Edward Mitchell. *LEng & ScrpEng.* b. Riverside, NJ 20 Aug. 1866, d. 21 February 1959. His art schooling included studies at the Pennsylvania Museum and the School of Industrial Art in Philadelphia, the Spring Garden Institute and the Corcoran Gallery School of Art in Washington, DC. On 1 May 1882 this engraver began his apprenticeship with Bailey, Banks & Biddle in Philadelphia. After a number of positions in Boston and New York City he joined American BNCo in 1890 and remained until 1900 when he moved to the Bureau of Engraving and Printing on 4 June. In 1925 Weeks was appointed Foreman of the LtEng Dept. and became Superintendent in 1935. After only a few months he chose to return to engraving. He resigned from the BEP on 28 Feb. 1940. During his time at the BEP he attended George Washington U. in the evenings and acquired a law degree. He designed the backs for the small-size $1 notes, 1935 and later.



It took Mr. Weeks 100 hours to engrave these four lines that appear on the backs of the 1914 Federal Reserve Bank notes.

WEHDE, Carl. This Massachusetts copperplate engraver once operated at 542 White Street in Springfield. Two of Mr. Wehde's stamp-like designs, engraved in the 1930s, are illustrated in *The EPJ*, 187, pp. 139-140. In 1935 he applied at American BNCo but was not hired.

WEINGARTNER, John F. *LtEng & Photolithographer.* He was employed at the Bureau of Engraving and Printing in the 1930s and as late as 1951.

WEISS, _____. *Trans.* (see Amendt.)

WELBY, James. *Des.* He was employed at American BNCo on 13 Dec. 1935. On 11 October 1940 he went into military service. He returned to ABNCo and might have been there as late as the 1950s.

WELLS, William Bulmer. *LtEng & OrEng.* b. Philadelphia 2 Oct. 1874, d. 30 Jan. 1942. His career began on 10 Dec. 1890 with the E.A. Wright Co. in Philadelphia where he remained until 4 Aug. 1899. He engraved at the Philadelphia office of American BNCo from 15 Aug. 1899 to 10 June 1916 and the New York office of that company from 12 June 1916 to 20 Aug. 1916. Eight days later he joined the Bureau of Engraving and Printing where he remained until his death. Examples of his work are found on the $1 US, HE SE33 and $100,000 GC, H1498.

WELLSTOOD, John Geikie. *LtEng.* b. Edinburgh, Scotland 18 Jan. 1813, d. Greenwich, CT 21 Jan. 1893. He came to the U.S. in 1830 and worked for William H. Whiting in 1836. From 1840-1847 he was affiliated with Rawdon, Wright & Hatch. In 1848 he organized Wellstood, Benson & Hanks. The ultimate successor, Wellstood, Hay & Whiting was part of the American BNCo formation in 1858, where he was engraving in 1861. This engraver was a trustee at ABNCo in 1870 and 1871, but left to form the Columbian BNCo in Washington, DC. Sometime prior to 1 January 1876 he founded the Excelsior BNCo in NYC and Washington, DC. Wellstood returned to ABNCo and remained there until his death. According to the *Banker's Magazine* (March 1983), "He always used the flat graver, disdaining the three-cornered tool favored by less skillful hands. He was altogether the quickest workman in his trade, and even as an old man, could do better work and faster than any of the younger men...." Wellstood engraved the following USN back designs.

United States Federal Bank Notes

$2, H155-170.

$5, H246A-273.

$10, H469-482.
$20, H704-723.

$50, H929-941.
$100, H1123A-1136.

$500, H1323-1336.

WELLSTOOD, William. *LtEng & PEng.* b. Edinburgh, Scotland 19 Dec. 1819, d. ca. 1875. He came to New York City in the early 1830s, and was working there as late as 1875.

WELLSTOOD, W.M. *Trans.* He was employed at American BNCo in the early 1860s.

WELSH, Charles. *Eng.* b. PA ca. 1812, d. after 1860. He was working in New York City in 1841, perhaps with A.B. Walter in 1844. He joined Draper, Welsh & Co. in 1851 and remained with American BNCo when the company was formed in 1858.

WELSH, Charles. *Trans.* He was employed at the Philadelphia office of American BNCo in 1861 and 1862.

WESER, B.H. *PEng.* He was employed at the Central BNCo.

WESTERN Bank Note Co. This company was organized as the Western Engraving Co. in 1864 and was located at Randolph near Clark in Chicago; C.C. Cheney was president and Isaac A. Chapman was the backer. On 23 Feb. 1867 the name was changed to the Western Bank Note and Engraving Co., and was listed as late as 1961 in the Chicago Telephone Directory. A separate division functioned as the Western BNCo. A fire in 1871 forced the WestBN&ECo to move to Lake & Clark Sts.; in 1888 they were located at Dearborn & Van Buren Sts.; in 1892 Madison & Michigan Avenues was their address. The St. Louis BNCo and an office of the WestBNCo shared the same address, 214 & 216 Chestnut Street in St. Louis in 1888. The former company became a subsidiary of the latter. In 1901 American BNCo acquired this company, however, it operated as a subsidiary until 17 June 1911. For a while it served as the Western office of ABNCo.

In 1839 there was a short-lived company with this name formed by Woodruff & Hammond in Cincinnati, OH; it is not related to the company formed in 1864.

WESTON, J.C.(or L) *Des.* He did design work for Franklin-Lee, Kendal, Hamilton and Security BNCo. Weston was employed at the Bureau of Engraving and Printing.

WEYMAN, William. *Pr.* b. PA, d. NYC 18 July 1768. He learned the art of printing under William Bradford in Philadelphia. A partnership with James Parker ended in 1759; he then opened his own printing business. He printed New York notes dated 2 Apr. 1759 and 21 Apr. 1760.

WHEELER, B. He printed Rhode Island notes dated June 1780.

WHITE, Edwin. *Art.* b. South Hadley, MA 21 May 1817, d. Saratoga Springs, NY 7 June 1877. He began to paint during his latter grammar school years. In 1840 Mr. White exhibited at the National Academy of Design. In 1848 he moved to New York from

Connecticut; the following year he became an Academician at the National Academy of Design. Two trips to Europe (1850-58, and 1869) allowed him to study in Germany, Italy and France. Mr. White also exhibited at the American Art-Union, the Boston Athenaeum and the Pennsylvania Academy. He submitted art work to American BNCo for bank note use.

United States Federal and Foreign Bank Notes

Argentina
Gaucho & Girl (eng. C. Burt), 10 pesos, PS1784.
Italy
Arms of Italy (eng. J. Smillie), 5 lire, PS273, 10 lire, PS212 & PS213.
Romulus, Remus & Wolf (eng. (J.) Smillie), 10 lire, PS274.

Mexico
First Land (eng. C. Burt), 2 pesos, PS154.
United States
Landing of the Pilgrims (eng. C. Burt), $1 NBN (back), H29-35. (White made the drawing from which the F.O.C. Darley subject was engraved.)

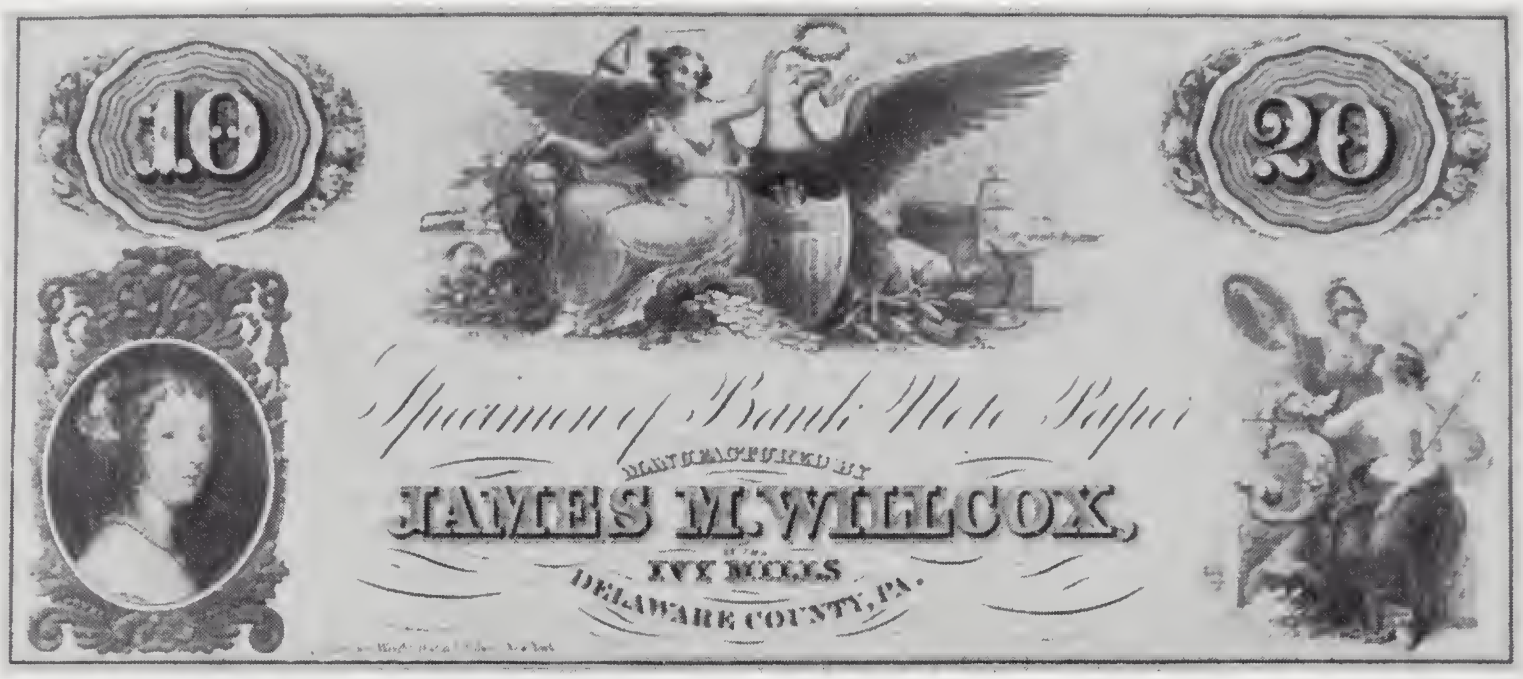
WHITE, John. *LtEng.* He was engraving for the Homer Lee BNCo ca. 1900 and remained with American BNCo after they absorbed HLBNCo. White accepted his pension on 21 July 1934.

WHITE, Peregrine, Jr. Possibly the first counterfeiter in America, he was convicted of this crime in Maryland in 1704.

WHITECHURCH, Robert. *PtEng.* b. London, England ca. 1814, d. Philadelphia (?) about 1880. His engraving career began ca. 1830. In 1848 he moved to Philadelphia and worked for John M. Butler and Butler & Carpenter until 1865. Some time before 1870 he joined the Bureau of Engraving and Printing.

WHITING, William H. *Eng.* b. ca. 1812, d. ca. 1862. He was engraving in Albany, NY in 1835 but some time after 1837 he moved to New York City where he worked for Rawdon, Wright & Hatch from 1840-1844. Some of the other companies he worked for include Wellstood, Hanks, Hay & Whiting (1852-1858); Wellstood, Hay & Whiting. He moved to American BNCo when the company was formed in 1858 and became secretary until 11 Sept. 1861 when he resigned.

WILLCOX & CO. In 1729 Thomas Willcox established a papermaking mill in Chester County, PA; this was the third mill in America. Mark Willcox, the son of the founder was operating the mill in 1767. Paper watermarked "NATIONAL BANK" was made for the Bank of North America in 1782. Joseph Willcox took over operations in 1859. U.S. treasury notes of 1843 (HX108) and U.S. bonds of 1848 (HX119), printed by Rawdon, Wright & Hatch, were printed on Willcox watermarked paper.



This specimen of bank note paper was printed by Rawdon, Wright, Hatch & Edson.

On 31 March 1869 this company entered into a contract with the U.S. Treasury. Initially, the firm was to introduce "silk fiber of two different colors (into the paper intended for fractional currency and U.S. notes)...and also a watermark showing repeatedly, as may be thought advisable hereafter, the letters 'U.S.'" U.S. (legal tender) notes were not printed on this paper. A new agreement was entered into in September 1869 "whereby all the paper intended for use in printing of currency, bonds, and notes would embody the distributed fiber feature and the 'U.S.' watermark and, in addition, the paper intended for legal tender issues (U.S. notes) would include a newly invented localized fiber feature. The characteristic of this feature was a "band or bands of dark-blue jute fibre, two or three inches in width, traversing one (sic) face of the sheet(s)" (*History-BEP* 37). This contract was in effect until 31 August 1877. The first Canadian postage stamps, printed by RWH&E, were probably on Willcox paper. In 1859 Willcox made watermarked paper for Bank of Greece bank notes; an example is illustrated in Hunter (297).

WILDT, Julius. *Trans.* (see Amendt.)

WILLARD, Asaph. *Eng.* b. Wetherfield, CT 24 Dec. 1786, d. Hartford, CT 14 July 1880. His apprenticeship was served under Abner Reed. He was working in Albany, NY in 1816 as a partner of Willard & Rawdon. The following year and until 1819 he was with Tisdale, Danforth & Willard, later known as the Hartford Graphic & BNCo. Before 1828 Willard became a partner with Ralph Rawdon in Albany, NY.

WILLIAMS, _____. *Eng.* He engraved for Rawdon, Wright & Hatch ca. 1813.

WILLIAMS, David. *Des.* He was employed at Jeffries BNCo as early as the 1980s.

WILLIAMS, Jack F. *Des.* He was employed at the Bureau of Engraving and Printing.

WILLSSEN,_____. *Trans.* (see Amendt.)

WILSON, Edith. She was employed at the Philadelphia office of American BNCo on 20 March 1897 and transferred to the New York facilities on 12 June 1916. She might have operated a pantagraph machine. Miss Wilson received her pension on 12 July 1934.

WILSON, WILLIAM W., ENGRAVING & PRINTING CO. This company was advertised as printers and engravers of "banknotes, safety checks, bills of exchange &c." at 23 Court Street in Boston, MA. An undated sample sheet was lot 517 in the 18 June 1990 sale by

G.F. Kolbe. On this sheet there were at least 10 images also used on notes by other companies including Baldwin, Adams; Casilear & Durand; Casilear, Durand, Burton & Edmonds; and Doty & Bergen.

WIRAM, Kenneth C. *LtEng & PantOp.* b. 22 Nov. 1915. Educational and art studies at Indiana State Teachers College, Rose Polytechnic Institute and five years at the Corcoran Gallery School of Art. In 1986 Mr. Wiram celebrated 50 years at the Bureau of Engraving and Printing. For this occasion an unprecedented souvenir card was issued in his honor. V. Jack Ruther was the designer; Thomas Hipschen, Gary Slaght and Stanley Scantlin were the engravers (see p. 303). Wiram's work includes numerous engraved signatures on currency master plates, currency and stamp lettering, several White House invitations, and a portrait of *Salmon P. Chase* on a stock transfer stamp.

WISSLER, Jacques. *Eng & Lith.* b. Strasbourg, France 1803, d. Camden, NJ 24 November 1887. He was educated in Paris, and came to the U.S. in 1849. Although he was a Union sympathizer, Wissler was in Richmond when Ft. Sumter was fired upon. He engraved bank notes and bonds for an unidentified southern bank note company, but suspicions grew about his loyalty; Wissler's estate was confiscated. After the Civil War he lived in Macon, MS before moving to Camden, NJ.

WITTENAUER, Charles Frank. *PEng.* b. NYC 3 Nov. 1863. He began his career with the Homer Lee BNCo ca. 1887. He also engraved for the National Steel Engraving Co.; the Hamilton BNCo (1913); and the Security BNCo. Wittenauer joined the Bureau of Engraving and Printing on 1 March 1919; he retired on 31 August 1935. His work appears on the Canal Zone 1¢, 2¢, 5¢ & 10¢ due stamps and both the Philippines 18¢ & 32¢ stamps.

WOLSTENHOLME, Harry W. This siderographer was employed at the Bureau of Engraving and Printing in the 1930s.

WOODRUFF, J.L. *Eng.* He was an engraver at the office of William Woodruff, his father, perhaps.

WOODRUFF, John S. *Pr.* He was working in the 19th century.

WOODRUFF, William. *Eng.* As early as 1817 he was working in Philadelphia and in Cincinnati at a later time.

WOODWARD, Benjamin. (see Joseph Cooke.)

WRIGHT, _____. *Trans.* (see Amendt.)

WRIGHT, Charles Cushing. *Eng, Med & D-S.* b. Damariscotta, ME 1 May 1796, d. NYC June 1854. He began engraving in Utica, NY ca. 1817. After brief stays in Albany and NYC he moved to Savannah, GA in 1819 then to Charleston, SC; in 1823 he was in New York City. He was affiliated with the following companies: A.B. Durand (1824); Durand & Wright (1826-1827); Bale & Wright (1829-1833); Wright & Prentiss (1835-1838). Wright was one of the founders of the National Academy of Design.

WRIGHT, Ernest A. *Eng.* b. ca. 1852, d. Philadelphia 1912. He came to New York City, probably from England, ca. 1871. After working as an engraver for one year he moved to Philadelphia and founded E.A. Wright Bank Note Engravers. In 1907 the firm was incorporated as E.A. Wright Bank Note Co. This name was used for security printing, but, for other work E.A. Wright Co. was the identifying name. The company continued to operate under descendants until 1964 when it was sold to Jostens, notwithstanding, security work continued under the name of E.A. Wright Co. for one year. Thomas de la Rue purchased Jostens and operated in Philadelphia as the Federated BNCo; this company was then sold to the Security Columbian BNCo. The E.A. Wright BNCo prepared the following notes: French Guiana S-B92-95; French West Africa S-B170,172 &173; Guadeloupe S-B190-196; Martinique S-B210, 211 & 214; Morocco S-B230-233.

WRIGHT, G[eorge]. *PEng.* b. ca. 1810, d. ca. 1859. He was working in Philadelphia in 1837. He could have been with Wright & Balch in NYC.

WRIGHT, George. *Trans.* He was employed at the Bureau of Engraving and Printing about 1900.

WRIGHT, James. *Eng.* From 1837-1857 he was engraving for Danforth & Wright in NYC.

WRIGHT, Neziah. *LtEng.* b. NH ca. 1804, d. ca. 1873. From 1828-1858 he was with Rawdon, Wright & Hatch and their successors. As a member of RWH&E in 1847, Wright worked on U.S. stamps. He became treasurer of American BNCo and served until his retirement in Apr. 1873.

WRIGHT, Osbourne. *ScrpEng.* He was employed at American BNCo from 24 July 1925 until 2 July 1931.

WRIGHT, R. *Eng.* He was employed at the Bureau of Engraving and Printing in 1901.

Y

YEMA, S.Q. *PEng.* He was engraving at the Bureau of Engraving and Printing prior to 1900. This name is most certainly a corruption of S. Ōyama.

YOUNG, _____. *Trans.* (see Amendt.)

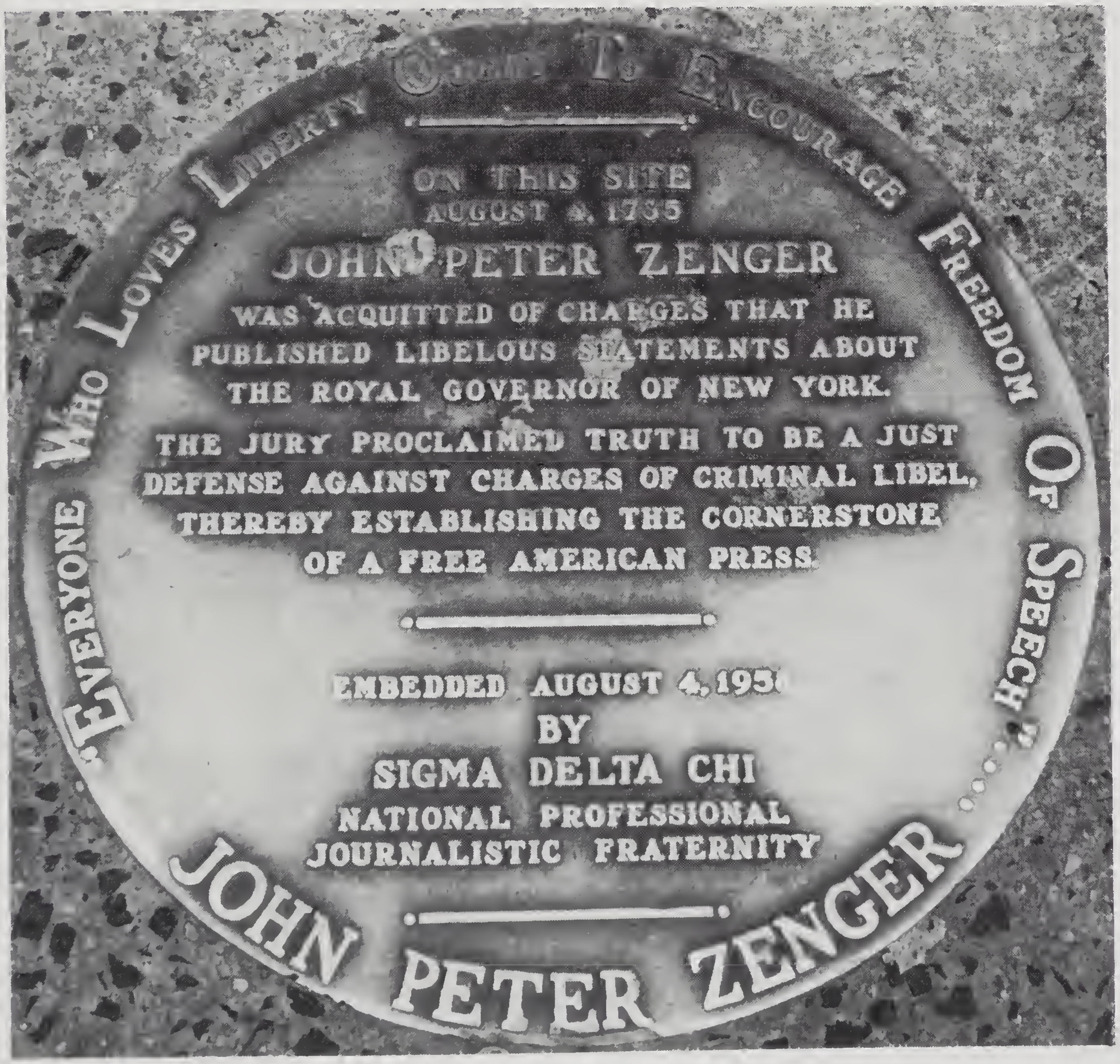
YOUNG, Clarence Kelker. *LtEng.* b. Washington, DC 7 Jan. 1875. He went to the Bureau of Engraving and Printing as a plate cleaner on 13 May 1892; he was named an engraver on 1 July 1902. He applied for the office of Assistant Director on 15 May 1908. In 1921 Young was placed on probation for "allegedly reading a newspaper" during working hours; he denied this. For this, apparently, plus his attempts to show how costs could be reduced at the BEP, which Young enumerated in a letter dated 20 Dec. 1924 to President Coolidge, he was accused of numerous petty infractions. He was discharged on 15 July 1924 and joined Quayle & Son. Today, Young would be called a "whistle blower."

YOUNG, J. Richard. d. 20 March 1930. He began his employment at American BNCo in 1880 and was there at least until 1911.

Z

ZAMPINI, Michael. This printer began his employment at American BNCo on 15 October 1917 and was there as late as 1942.

ZENGER, John Peter. *Pr.* b. Upper Palatinate, Germany 1697, d. NYC 28 Aug. 1746. He was in New York City as early as 1726. On 5 Nov. 1733 – although incorrectly dated 5 Oct. 1733 – Zenger began publishing the *New York Weekly Journal*; it was a rival of Bradford's *New York Gazette*. As editor and publisher, Zenger earned the title of "Defender of Freedom of the Press." A trial proved him innocent of defaming William Cosby, Governor of NY. This printer learned his craft under William Bradford. Zenger printed NY notes dated 1737.


"EVERYONE WHO LOVES LIBERTY OUGHT TO ENCOURAGE FREEDOM OF SPEECH...."
ON THIS SITE
AUGUST 4, 1735
JOHN PETER ZENGER
WAS ACQUITTED OF CHARGES THAT HE
PUBLISHED LIBELOUS STATEMENTS ABOUT
THE ROYAL GOVERNOR OF NEW YORK.
THE JURY PROCLAIMED TRUTH TO BE A JUST
DEFENSE AGAINST CHARGES OF CRIMINAL LIBEL,
THEREBY ESTABLISHING THE CORNERSTONE
OF A FREE AMERICAN PRESS.
EMBEDDED AUGUST 4, 195
BY
SIGMA DELTA CHI
NATIONAL PROFESSIONAL
JOURNALISTIC FRATERNITY
JOHN PETER ZENGER

This plaque is embedded in the sidewalk in front of Federal Hall in New York City.

ZIMMERMAN, Harry. *LtEng.* He was employed at the Security BNCo in the early to mid-20th century.

Addenda

BECKWITH, Henry S.
Tremont Iron Works (art by T. House), The Wareham Bank, MA $100.
Watch Dog, The (art by Hancock), The Wareham Bank, MA $100.

BROWN, William J.
Chinese House Temple Entrance at Tachang, China $1, $5 & $10, PS1051-1053.
Dixon Pencil, Joseph Dixon Crucible Co. check (1893).
Theater, Mexico 100 pesos, PS385.
White House, Salvador 5 & 25 pesos, (PS102 & PS104?).

CRANZ, Edwin.
African Male Head, Central bank of French West Africa 500 francs (ca. 1991).
John Sotheby, Sotheby stock certificate.
Ludwig van Beethoven, Polygram stock certificate.

DAVIS, John S.
Louisiana State Capitol, The City of Baton Rouge, LA $1.

DAWSON, Clifford.
Stevens Hotel, Chicago, coupon bond (1925).
Sundial, China & South Sea Bank Ltd., $1-100, PA121-125.
Warner Brothers trade mark, stock certificate (1925). Only the insert was engraved by Mr. Dawson.

DELNOCE, Luigi (Louis).
Sir Walter Raleigh Presenting Corn and Tobacco to the English, $2 NBN, H171-177.

DELNOCE, Louis, Jr.
Arms of Romania, for unissued bank notes (1910-1912).
Belding-Heminway Co. trade mark, Belding Bros & Co. stock certificate (1925).
Chinese Scene, China, Frontier Bank $50 & $100, PS2574 & 2575.
Serbian Scene, Banque des Serbs, Croates et Slovenes 10 dinara (back), 1921, unissued.
Statue of Liberty, Chinese American Bank, China $1, $5, & $10, PS233 & PS236-242.

EASTERN AND WESTERN BANK NOTE ENGRAVING CO. A sample sheet of engravings includes the names and addresses of W.L. Ormsby and Doolittle & Munson. Apparently these two companies formed a business alliance.

FORINGER, Alonzo Earl.
Aviation (eng. W. Adolph), United Aircraft stock certificate.
Maritime Commerce (eng. W. Adolph): Canada $100 (back), P52 & 53; Mexico 100 pesos, P703.
Modern Inventions (eng. R. Savage), Canada $50 (back), P50 & 51.
Protection (eng. E. Gunn), Canada $1,000 (back), P56 & 57.
Textile Industry (eng. Edwin Gunn), Hart Schaffner & Marx stock certificate (1934).

GUILFOYLE, John.
Arms of the City of Los Angeles, bond (1907).

GUY, Kenneth.
Hexagons (4), Dart & Kraft stock certificate (1980).

HATCH, Lorenzo J.
Columbia, City of Mayaguez $1,000 gold bond (1902).
E Pluribus Unum (eagle, 7 inches across), card for the Associated Advertising Clubs of the world convention, (1916).
Female Standing, Boy Seated before Shield, Southern Pacific RR $500 1st refund. mort. gold reg. bd.

HAY, DeWitt Clinton.
Girl with Sheaf, City of Memphis $20.

JONES, Alfred.
Blacksmith, City of Memphis, $20.
People at Well (eng. with C. Rost), Mexico 20 pesos, PS165.
Seaside, Diamond State Bank, Seaford, DE $5.

KELLER, Joseph.
Female and Winged Wheel, Pacific Southwest Airlines stock certificate.

KISELY, Jaroslaw.
Human Figures (3), Technician, Doctor & Nurse, Duane Reade Corp. stock certificate. This subject was reworked in 1983 by Edwin Cranz and Richard Barratz for a Cooper Vision stock certificate.

LEECH, _____. He engraved the floral and animal cuts on the face of the indenture of Delaware notes dated 1 March 1734.

LEWYN, Gabriel. This Baltimore goldsmith is the probable engraver of North Carolina notes dated 2 April 1776.

LOIZEAUX, Elie Timothée.
Quisse, M.J., Peru 12¢ stamp, A66.
Moreno, Garcia, Ecuador 10¢ stamp, A75.

MANDEVILLE & Co. This company and its successor, Mandeville & Westcott, printed small change notes dated 8 September 1790 for the Corporation of Kingston, NY.

PARADISE, John Wesley.
Tobey, J.B., The Wareham Bank, MA $100.

SCHLECHT, Charles.
Morse, Samuel F.B. $5 SC, H185-186.

SKINNER, Charles.
Female profile, **Brazil** 1,000. 2,000 & 5,000 stamps. A57-59.
Kaiser Wilhelm II (ship), North German Lloyd traveler's check (1905).

SMILLIE, James D.
Church in Ecuador (art by J.D.S.), 20 pesos, PS264 or 100 pesos, PS266.
Locomotive, The City of Baton Rouge, LA $1.

SMITH, Sidney.
Ingeniero y General Abraham Williams, Honduras 2¢, 6¢, 10¢ & 15¢ stamps, A49.

VOGEL, Athur C.
Arms of Berlin, Germany, City of Berlin cp. bd. (1925). Only the insert was engraved by Mr. Vogel.
Pathe Exchange trade mark, stock certificate (1925). Only the insert was engraved by Mr. Vogel.

WADDILL, William. He prepared the ornamental borders and the colony seal on Virginia notes dated 1770 issued under the Act of 7 November 1769.

WALLACE, John, Jr.
Harry S. Truman: U.S. Postal Panel, 1973; *Story of American Bank Note Co.*

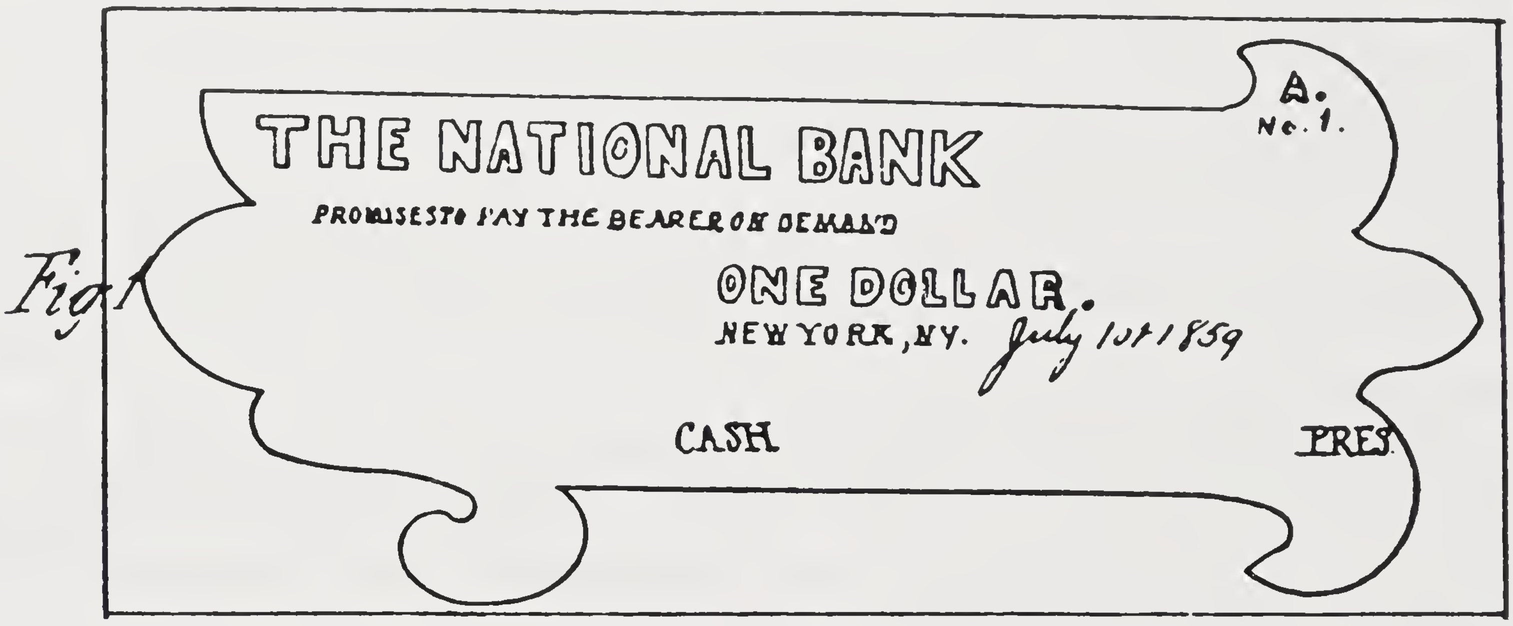
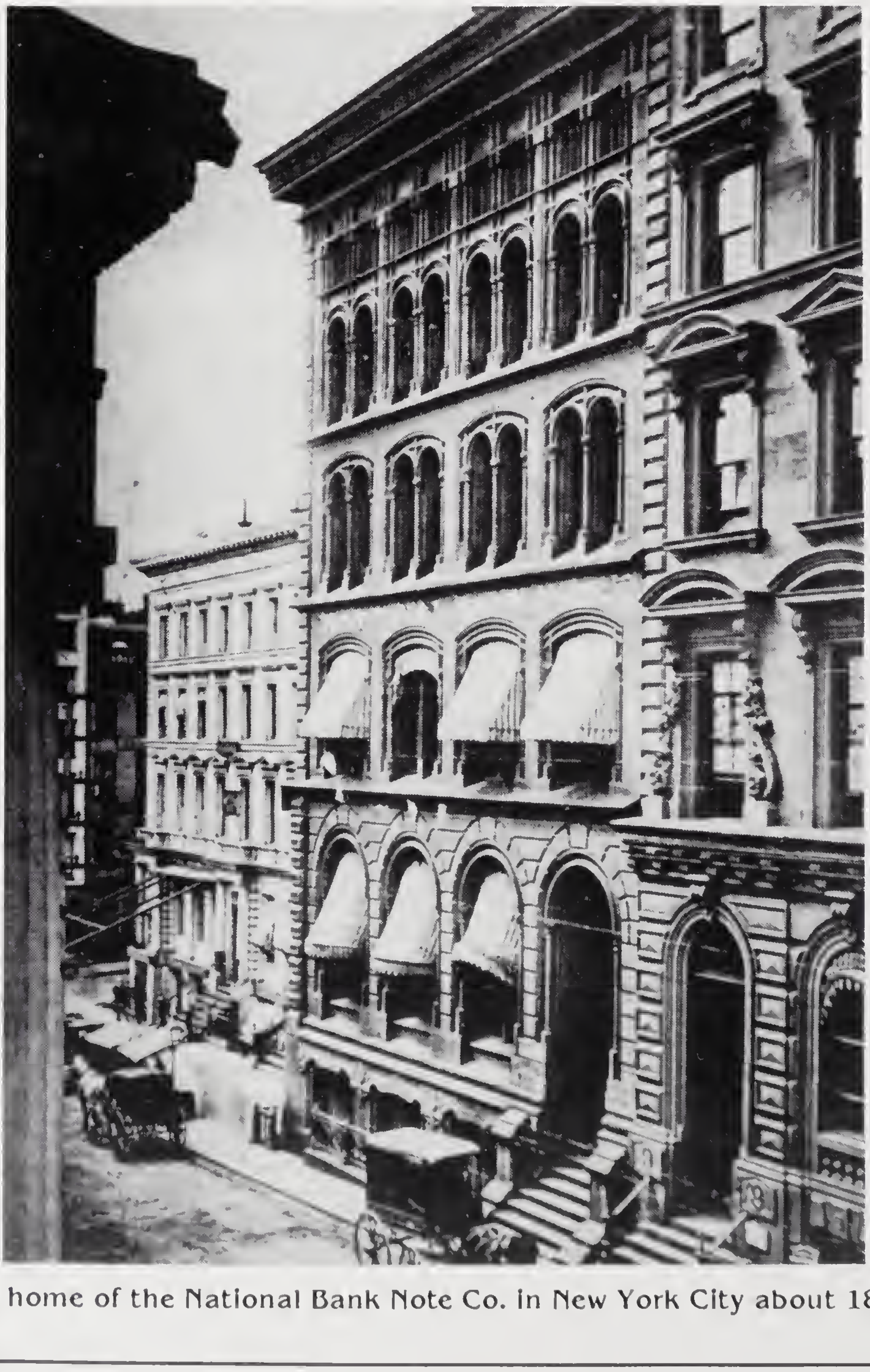
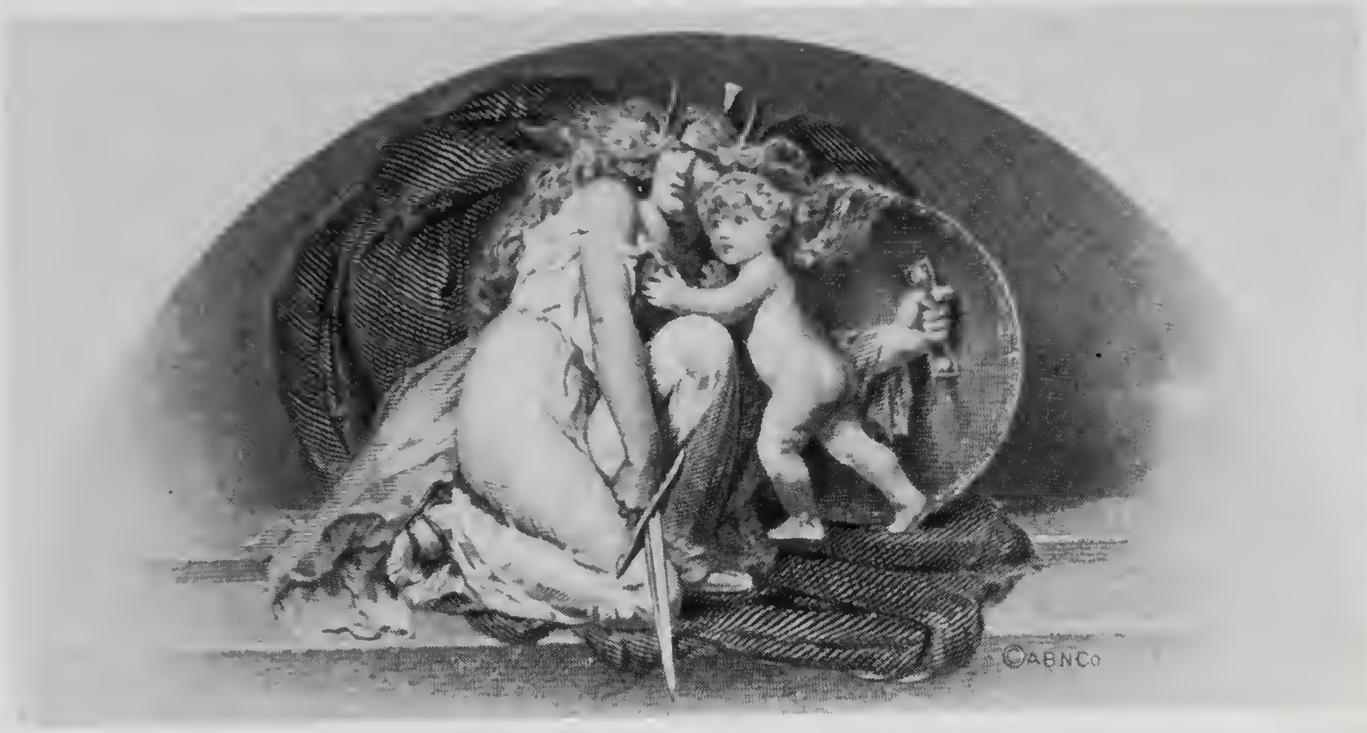


Fig 1
THE NATIONAL BANK
A.
No. 1.
PROMISES TO PAY THE BEARER ON DEMAND
ONE DOLLAR.
NEW YORK, NY. July 1st 1859
CASH
PRES.

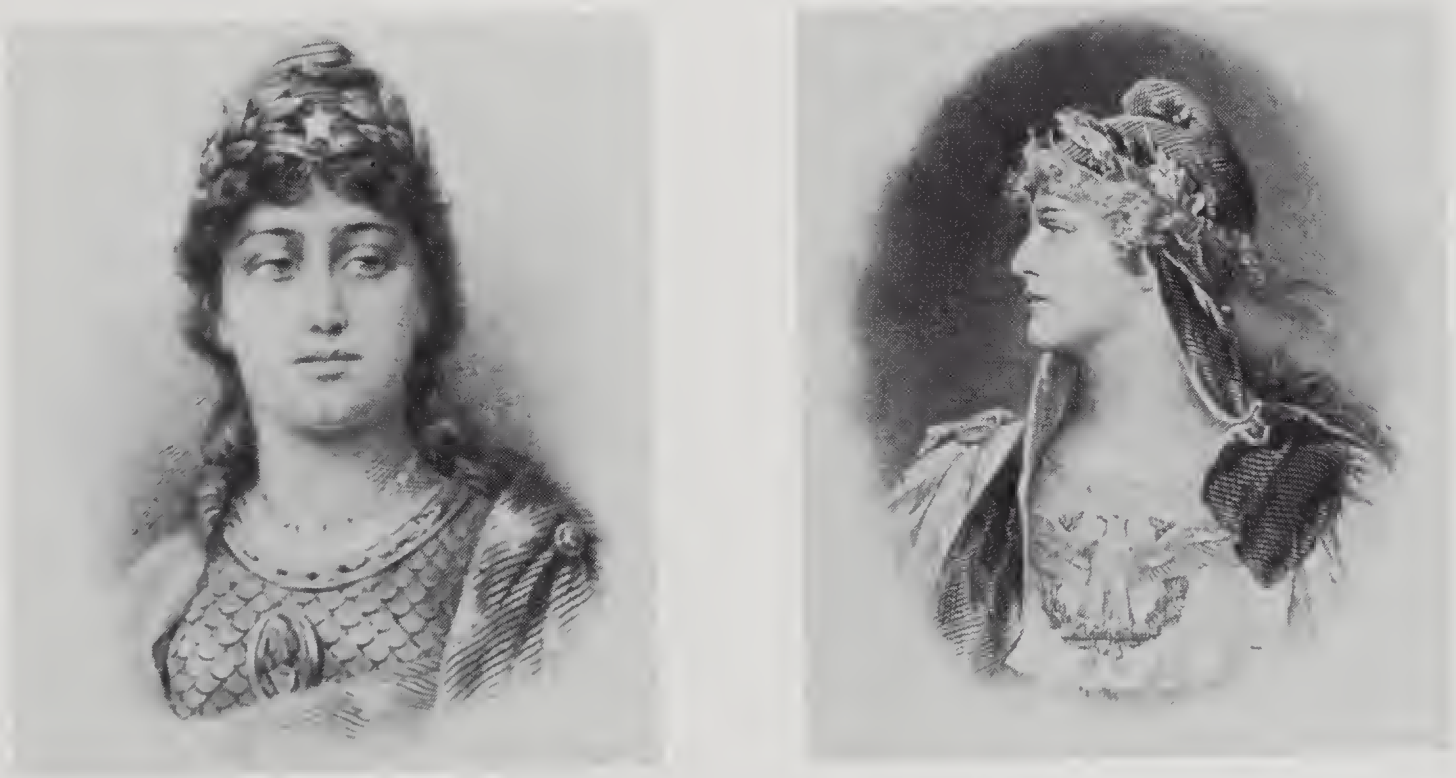
One of the three drawings that accompanied J. Murdoch's patent No. 31,820.



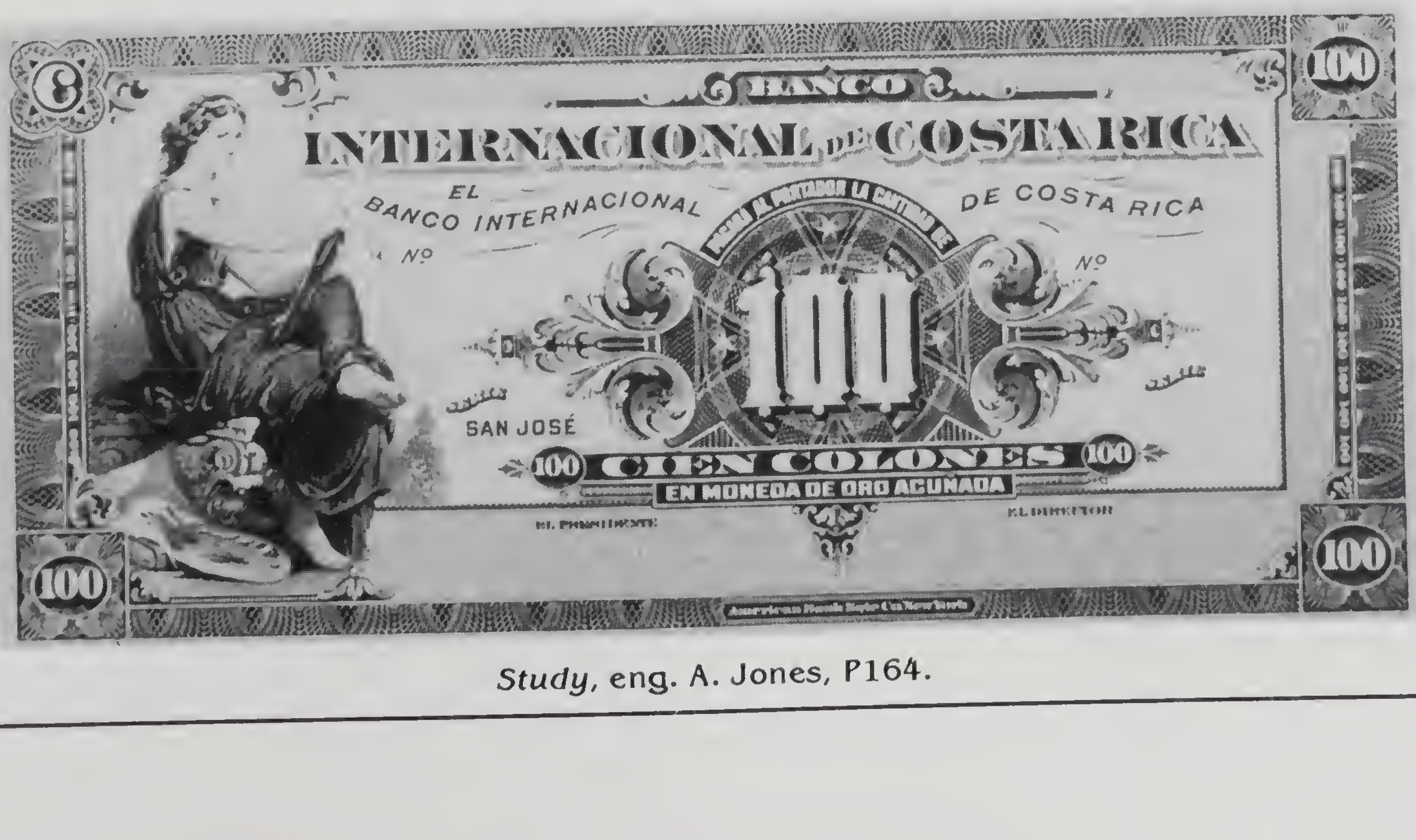
The home of the National Bank Note Co. in New York City about 1860.



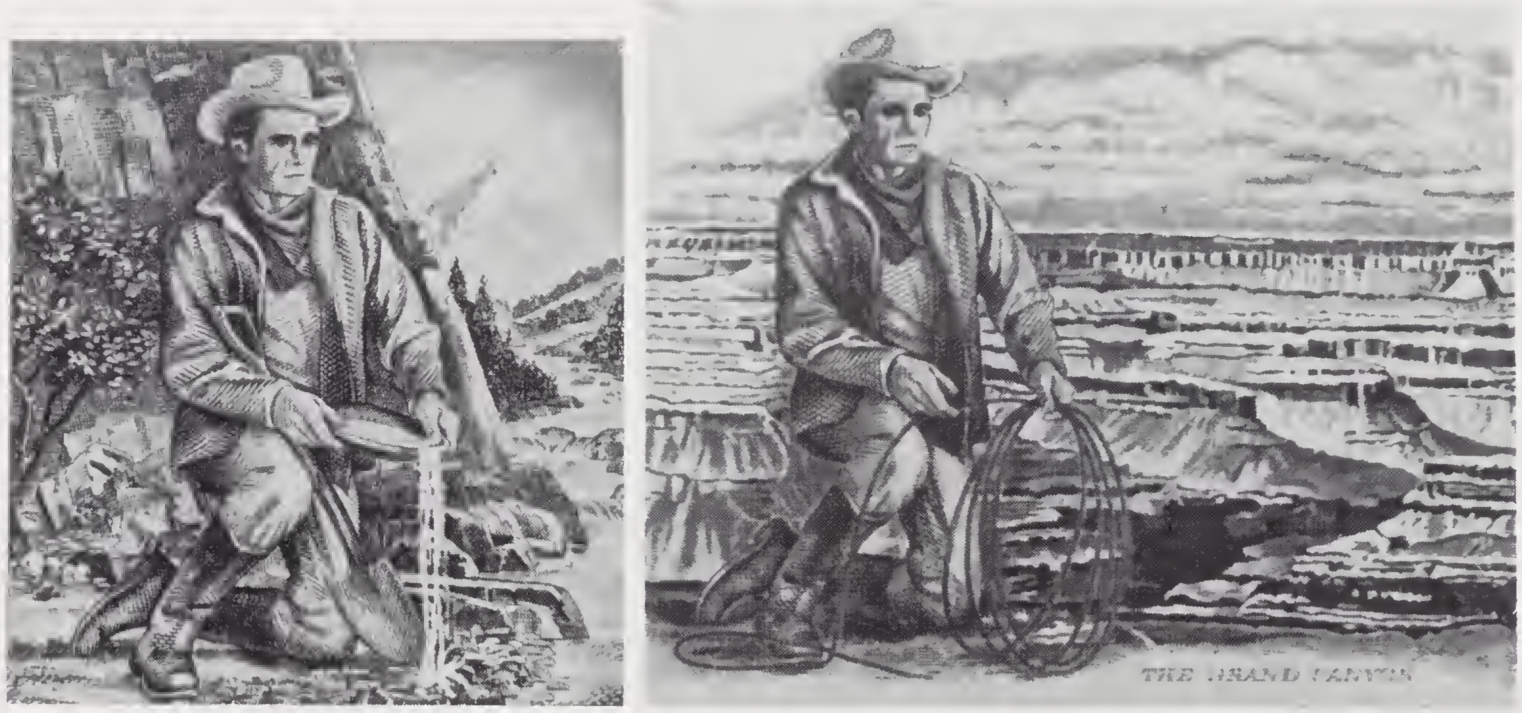
Protection, eng. E.H. Gunn, art by A. Foringer, U.S.S.R. 200 rubles, PS882.



Liberty (left), eng. S. Ōyama, Mexico 10 pesos, PS330. *Liberty* (right), eng. R. Savage, art by A. Foringer, Republic NB of Dallas travelers check.


BANCO
INTERNACIONAL DE COSTA RICA
EL BANCO INTERNACIONAL DE COSTA RICA
Nº
Nº
PAGARÁ AL PORTADOR LA CANTIDAD DE
100
SAN JOSÉ
100 CIEN COLONES 100
EN MONEDA DE ORO ACUÑADA
EL PRESIDENTE
EL DIRECTOR
100
100
100
American Bank Note Co New York

Study, eng. A. Jones, P164.



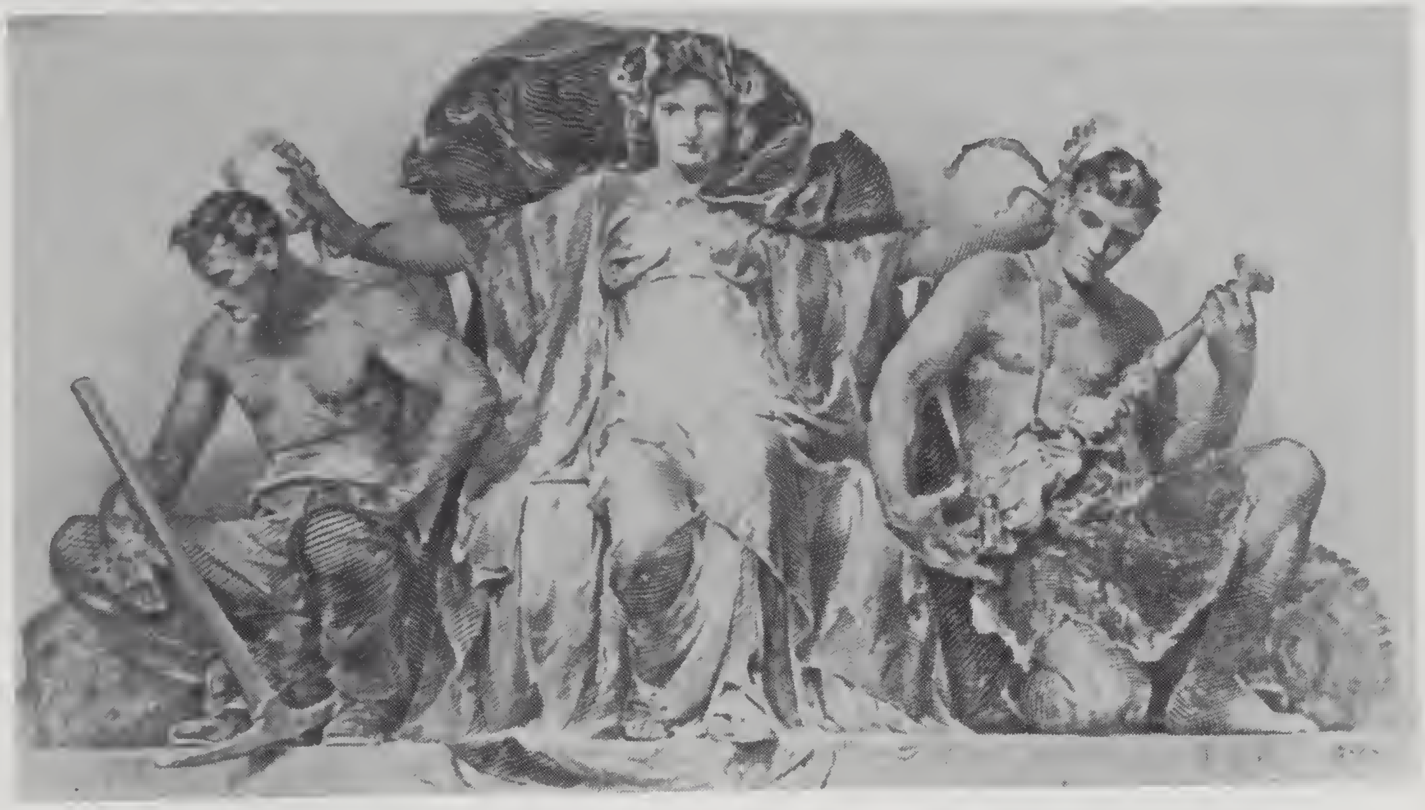
Man Panning Gold, eng. J. Wallace, Jr. for Federated BNCo. When Security-Columbian BNCo purchased FedBNCo Mr. Wallace's engraving was altered and used on a stock certificate for Arizona Public Service.

Cuauhtemoc, eng. E. Loizeaux, Mexico 1,000 pesos, P721.

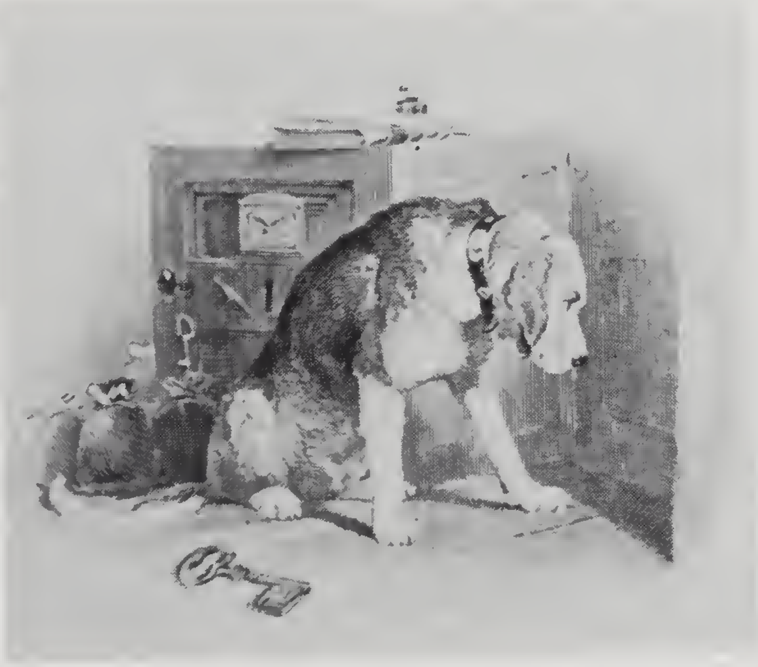
King Tawhiao, eng. W. Ford, New Zealand PS231-240.

Calendar Stone, eng. E.H. Gunn, Mexico 10 pesos ((back), PS686.

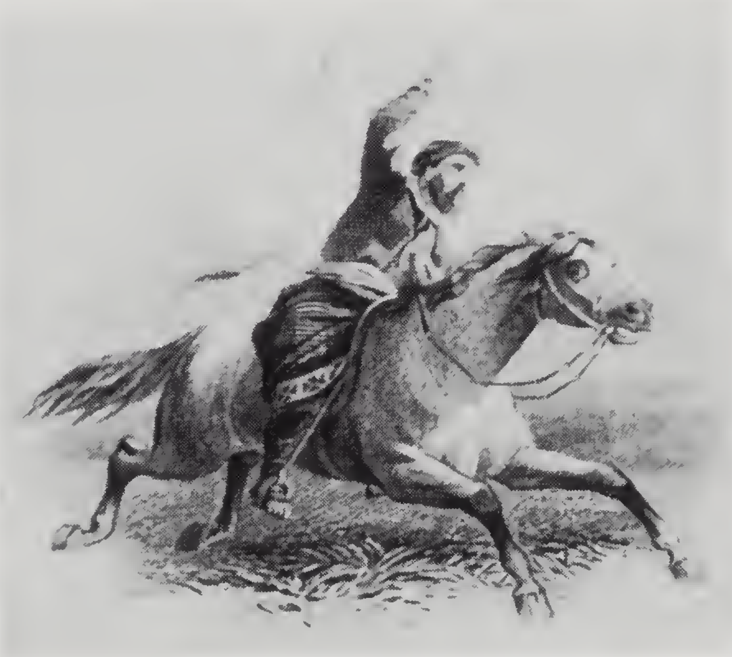
Victor Emanuelle, eng. C. Burt, Uruguay 100 pesos, PS214.



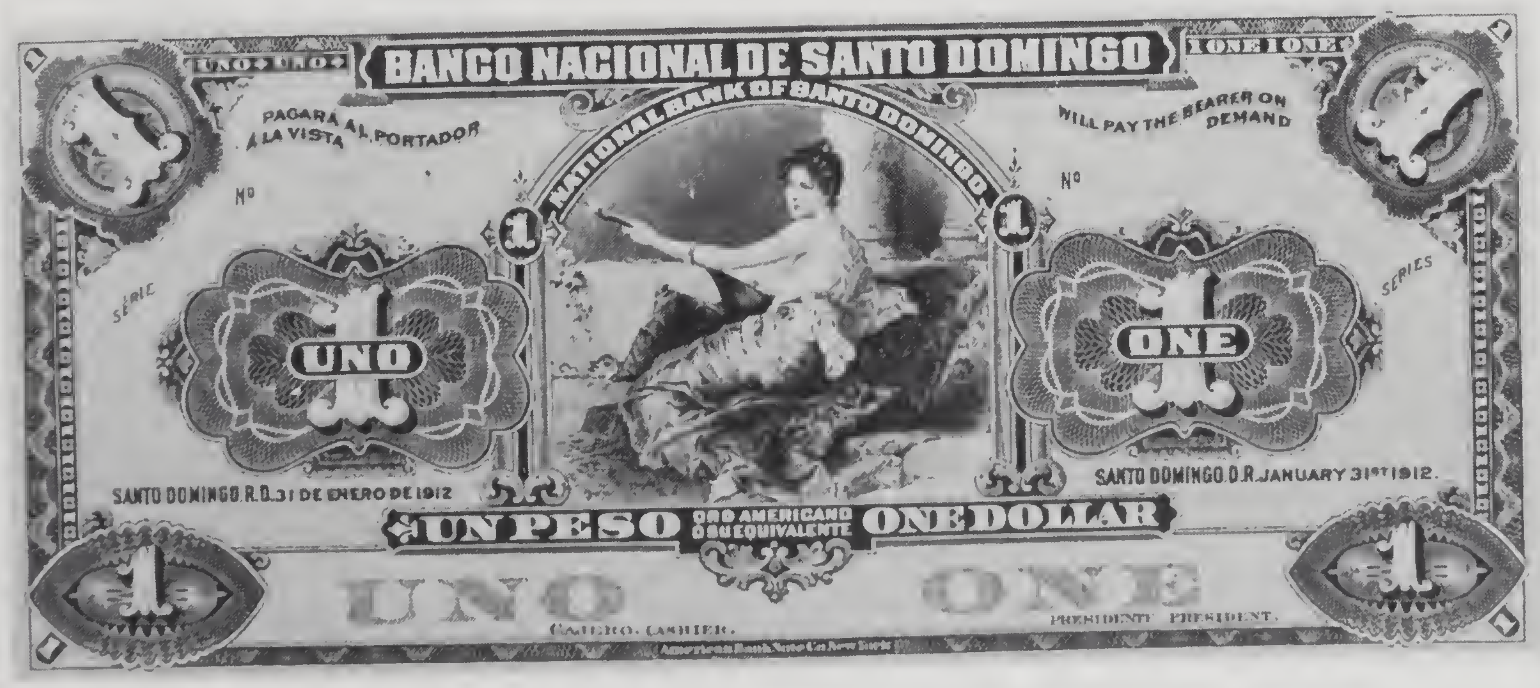
Construction and Industry, eng. G. Lambert, see stock certificates.



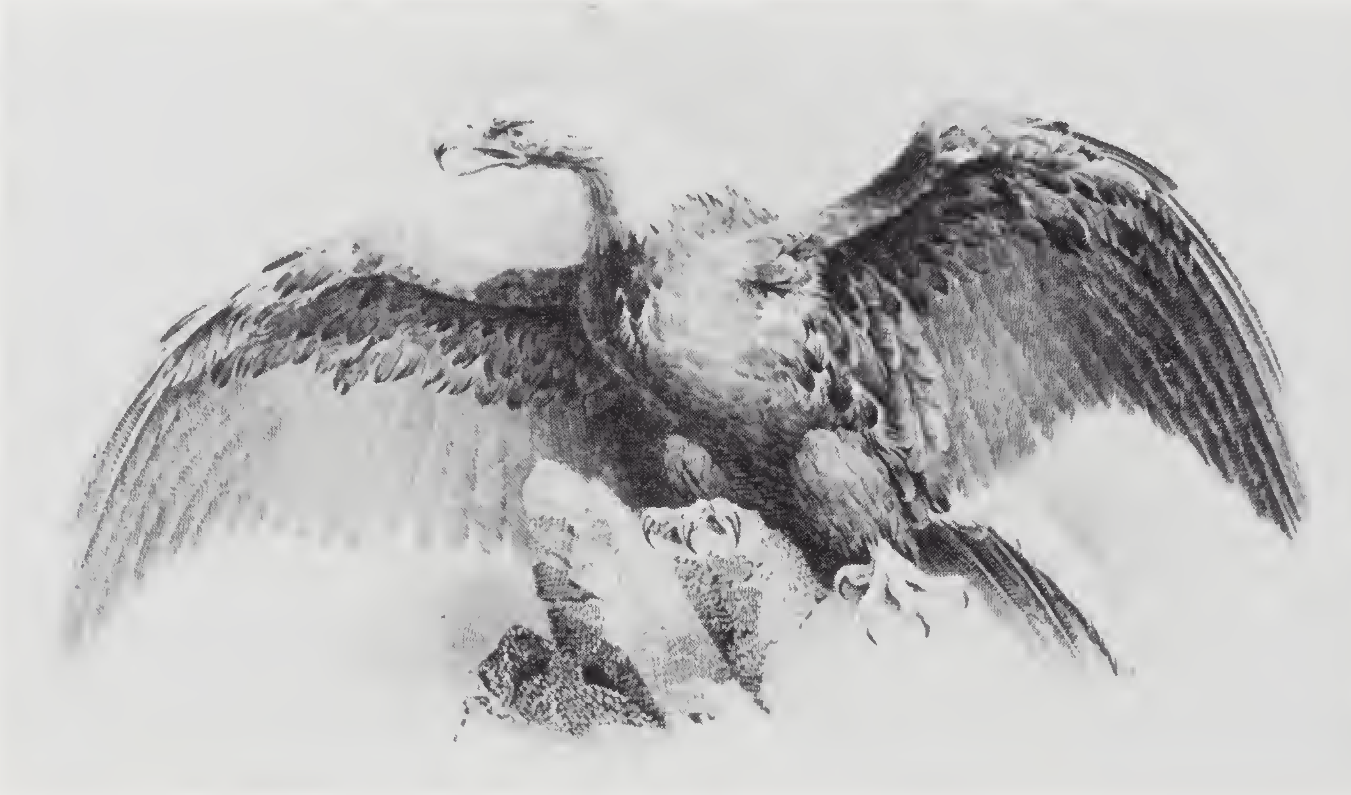
Trusty, eng. C. Burt, Peru 50¢, PS401.



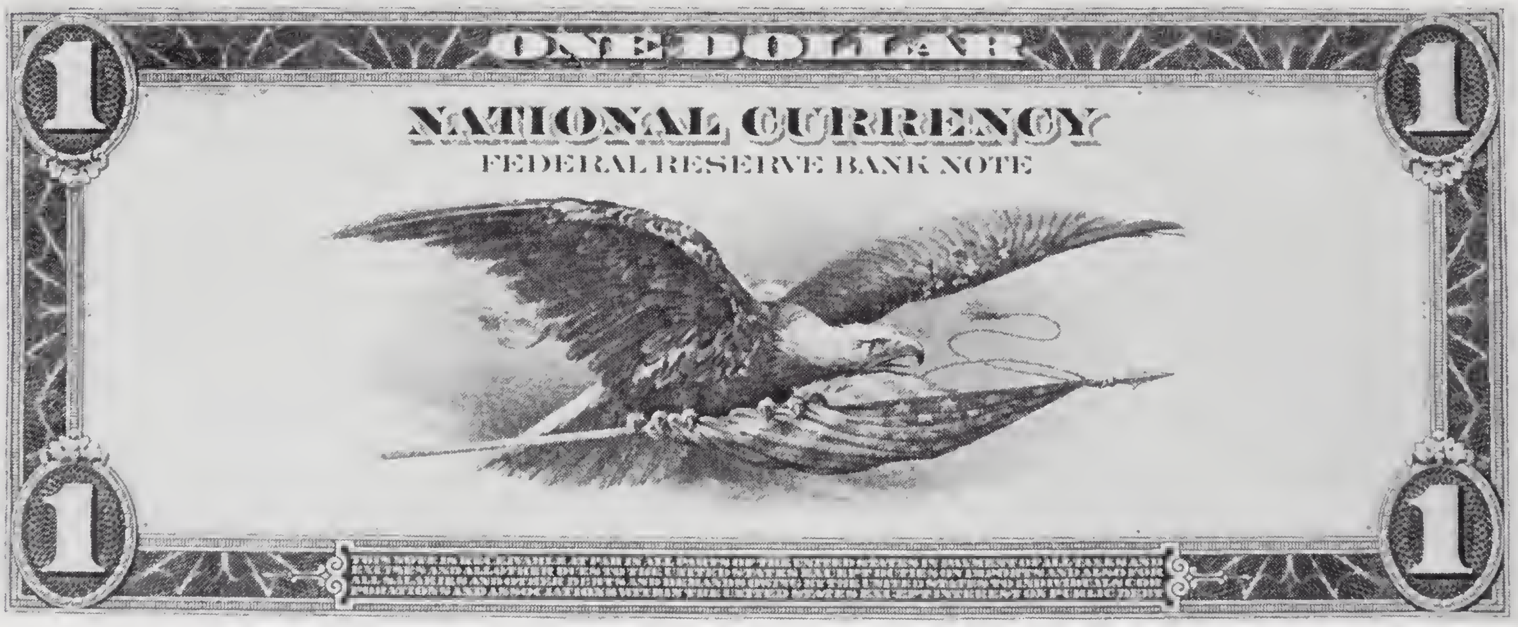
South America Ostrich Hunting, eng. James Smillie, Argentina 10¢, P6.


UNO UNO
BANCO NACIONAL DE SANTO DOMINGO
ONE ONE
NATIONAL BANK OF SANTO DOMINGO
PAGARA AL PORTADOR A LA VISTA
WILL PAY THE BEARER ON DEMAND
Nº
Nº
1
1
SERIE
SERIES
1 UNO
1 ONE
SANTO DOMINGO R.D. 31 DE ENERO DE 1912
SANTO DOMINGO D.R. JANUARY 31ST 1912.
UN PESO
ORO AMERICANO O SU EQUIVALENTE
ONE DOLLAR
UNO
ONE
CAJERO. CASHIER.
PRESIDENTE PRESIDENT.
American Bank Note Co. New York

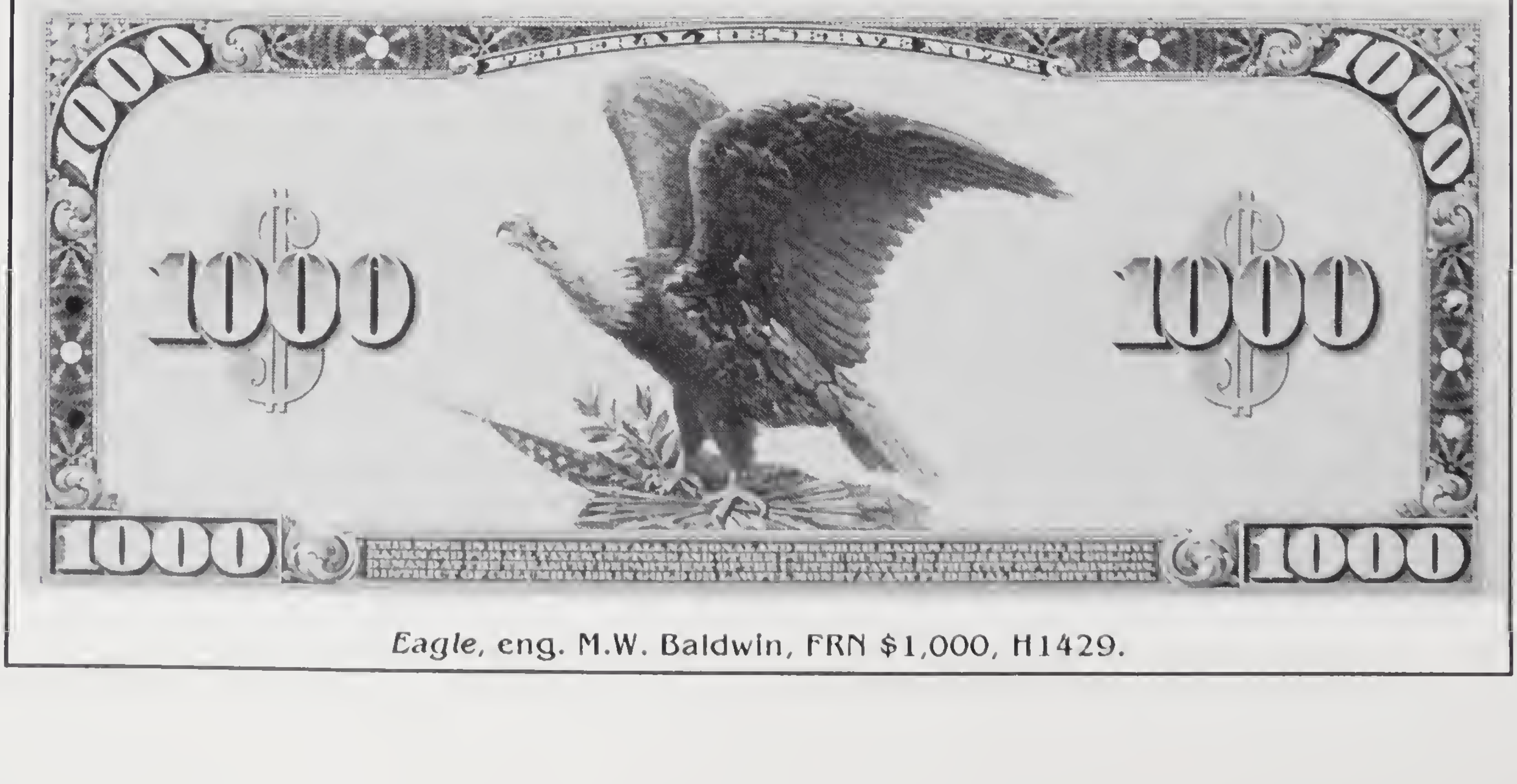
Female with Lute, eng. E. Loizeaux, Dominican Republic 1 peso ($1), PS151.



Spread Eagle, eng. J.P. Ourdan, US $100, H1120.



Eagle with Flag, eng. R. Ponickau, FRBN $1, H681.



Eagle, eng. M.W. Baldwin, FRN $1,000, H1429.

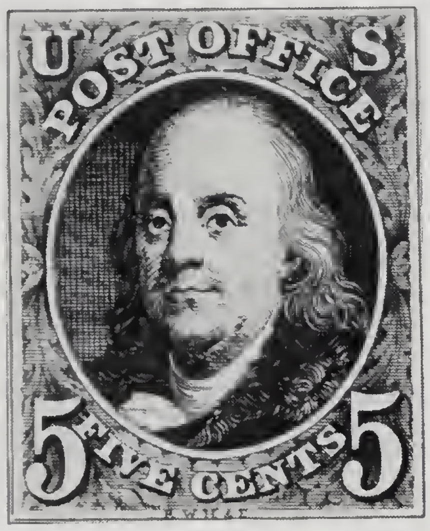
UNITED STATES POSTAGE STAMPS

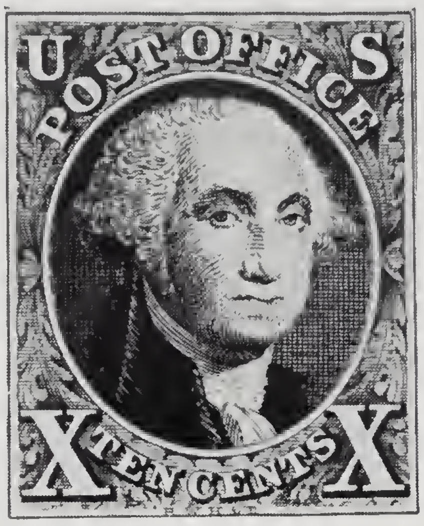
(The Scott Catalogue listings refer to the design type number.)

1847

General Issues

(RWH&E)





Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A1	5	J.P. Major	A.B. Durand	-	-
A2	10	J.P. Major	A.B. Durand	-	-

1875

Reproductions

(BEP)

A3	5	-	Charles Burt	George McCoy	-
A4	10	-	Charles Burt	George McCoy	-

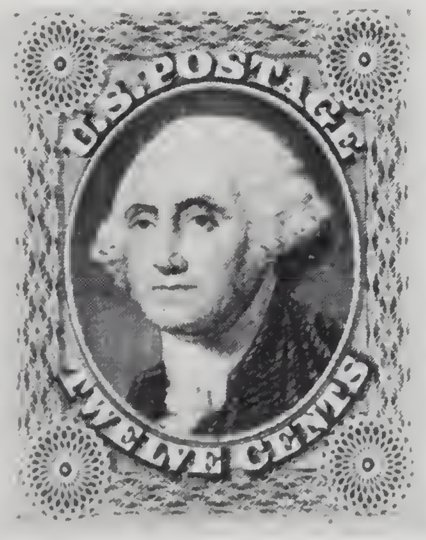
1851

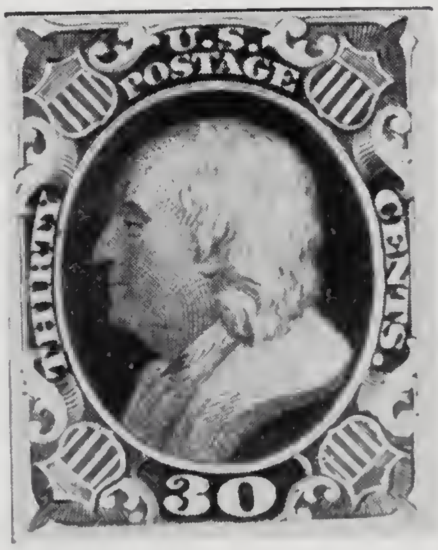
Carrier Stamps

OC1	-	J.I. Pease	Henry Earle	-	
OC2	-	J.I. Pease(?)	Henry Earle	-	

1851-1860

(TCC&Co)





A5-9	1	-	J.I. Pease	Henry Earle	Henry Earle
A10	3	-	J.I. Pease	Henry Earle	Asa Spencer
A11	5	-	J.I. Pease	Henry Earle	Asa Spencer
A12-15	10	E. Pitcher	J.I. Pease	Henry Earle	Henry Earle
A16	12	-	J.I. Pease	Henry Earle	Asa Spencer
A17	24	-	J.I. Pease	Henry Earle	Asa Spencer
A18	30	-	J.I. Pease	Henry Earle	Henry Earle
A19	90	-	J.I. Pease	Henry Earle	Henry Earle

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
			1861-1867 (NBNCo)		
A24	1	J. MacDonough	J.I. Pease	Cyrus Durand	Cyrus Durand
A25	3	J. MacDonough	J.P. Ourdan	D. Cooper	Cyrus Durand
A26	5	J. MacDonough	W.E. Marshall	J. Fanter	Cyrus Durand
A27	10	J. MacDonough	W.E. Marshall	-	W.D. Nichols
A28	12	J. MacDonough	W.E. Marshall	Cyrus Durand	Cyrus Durand
A29	24	J. MacDonough	W.E. Marshall	Cyrus Durand	Cyrus Durand
A30	30	J. MacDonough	J.I. Pease	W.D. Nichols	W.D. Nichols
A31	90	J. MacDonough	J.I. Pease	W.D. Nichols	W.D. Nichols
			1863		
A32	2	J. MacDonough	J.P. Ourdan	W.D. Nichols	W.D. Nichols
			1866		
A33	15	J. MacDonough	J.P. Ourdan	-	W.D. Nichols
			1869		
A34	1	E. Pitcher	J.I. Pease	J.C. Kenworthy	W.D. Nichols
A35	2	J. MacDonough	C.W. Rost	G.W. Thurber	G.W. Thurber
A36	3	J. MacDonough	-	G.W. Thurber	G.W. Thurber
A37	6	E. Pitcher	W.E. Marshall	J.C. Kenworthy	W.D. Nichols
A38	10	D.S. Ronaldson	Luigi Delnoce	D.S. Ronaldson	D.S. Ronaldson
A39	12	J. MacDonough	James Smillie	G.W. Thurber	G.W. Thurber
A40	15	E. Pitcher	James Smillie	J.C. Kenworthy	D.S. Ronaldson
A41	24	E. Pitcher	James Smillie	J.C. Kenworthy	D.S. Ronaldson
A42	30	J. MacDonough	Luigi Delnoce	D.S. Ronaldson	D.S. Ronaldson
A43	90	E. Pitcher	J.P. Ourdan	J.C. Kenworthy	D.S. Ronaldson
			1870 (NBNCo)		
A44	1	Butler Packard	J.I. Pease	A.W. Cunningham	A.W. Cunningham
A45	2	Butler Packard	Luigi Delnoce	D.S. Ronaldson	D.S. Ronaldson
A46	3	Butler Packard	J.P. Ourdan	D.S. Ronaldson	D.S. Ronaldson
A47	6	Butler Packard	J.P. Ourdan	D.S. Ronaldson	G.H. Seymour
A48	7	Butler Packard	J.P. Ourdan	D.S. Ronaldson	D.S. Ronaldson
A49	10	Butler Packard	Luigi Delnoce	D.S. Ronaldson	E.F. Bourke
A50	12	Butler Packard	Luigi Delnoce	D.S. Ronaldson	E.F. Bourke
A51	15	Butler Packard	Luigi Delnoce	D.S. Ronaldson	E.F. Bourke
A52	24	Butler Packard	J.P. Ourdan	D.S. Ronaldson	D.S. Ronaldson
A53	30	Butler Packard	-	D.S. Ronaldson	E.F. Bourke
A54	90	Butler Packard	Luigi Delnoce	D.S. Ronaldson	D.S. Ronaldson
			1873 (ContBNCo) (Nos. A44a-A54a, with die cancellations, are the same as the preceding.)		
			1875 (ContBNCo)		
A55	5	Butler Packard	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
			1882 (ABNCo)		
A56	5	T.F. Morris	Charles Skinner	-	-
A44b	1	-	-		E.F. Bourke
A46b	3	-	-	-	George Downs
A47b	6	-	-	-	G.H. Seymour
A49b	-	-	-	-	E.F. Bourke
			1883 (ABNCo)		
A57	2	W.M. Smillie & T.F. Morris	Alfred Jones	D.S. Ronaldson	D.S. Ronaldson
A58	4	T.F. Morris	Alfred Jones	D.S. Ronaldson	D.S. Ronaldson
			1887 (ABNCo)		
A59	1	T.F. Morris	Alfred Jones	G.H. Seymour	G.H. Seymour
			1890 (ABNCo)		
A60	1	-	E.C. Steimele	D.S. Ronaldson	D.S. Ronaldson
A61	2	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A62	3	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A63	4	-	Alfred Jones	D.S. Ronaldson	D.S. Ronaldson
A64	5	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A65	6	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A66	8	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A67	10	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A68	15	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A69	30	-	Alfred Jones	D.S. Ronaldson	D.S. Ronaldson
A70	90	-	E.C. Steimele	D.S. Ronaldson	D.S. Ronaldson
			1893 *Columbian Series* (ABNCo)		

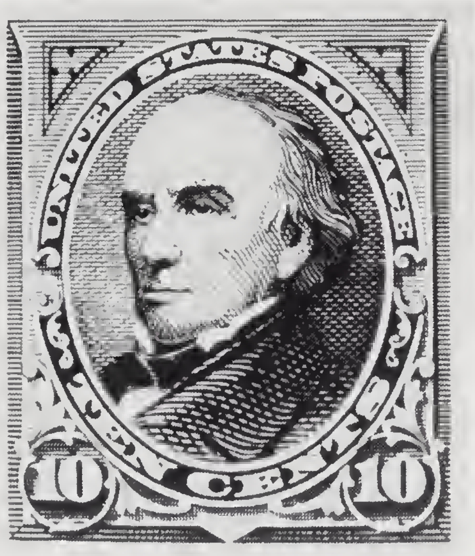
A71	1	A.S. Major	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A72	2	-	A. Jones & C. Skinner	D.S. Ronaldson	D.S. Ronaldson
A73	3	-	Robert Savage	G.H. Seymour	G.H. Seymour
A74	4	-	Charles Skinner	G.H. Seymour	G.H. Seymour
A75	5	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A76	6	-	Robert Savage	G.H. Seymour	G.H. Seymour

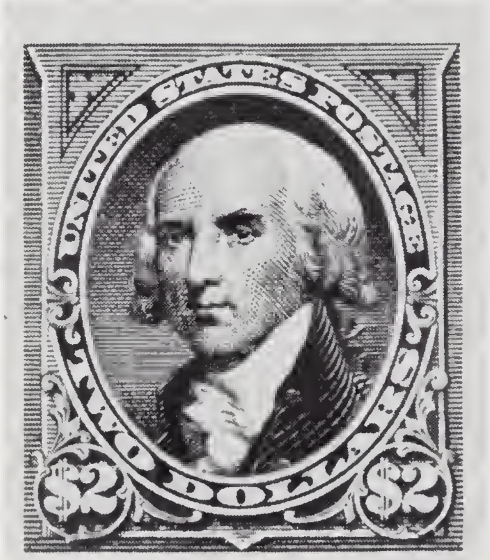
Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A77	8	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A78	10	-	Robert Savage	D.S. Ronaldson	D.S. Ronaldson
A79	15	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A80	30	-	Alfred Jones	G.H. Seymour	G.H. Seymour
A81	50	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A82	$1	-	Robert Savage	G.H. Seymour	G.H. Seymour
A83	$2	-	Charles Skinner	D.S. Ronaldson	D.S. Ronaldson
A84	$3	-	Robert Savage	D.S. Ronaldson	D.S. Ronaldson
A85	$4	-	Alfred Jones	G.H. Seymour	G.H. Seymour
A86	$5	-	A. Jones & C. Skinner	D.S. Ronaldson	D.S. Ronaldson

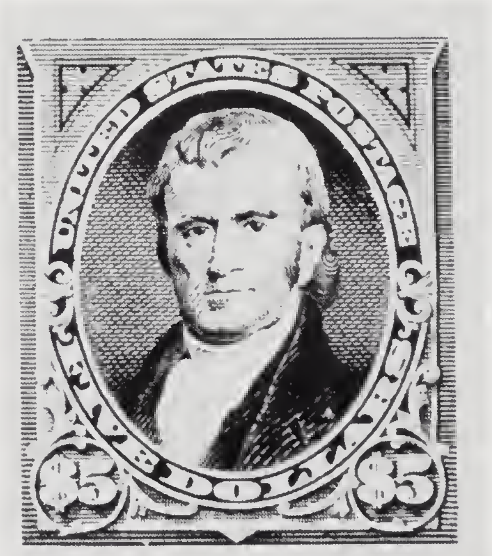
1894

(From this date forward, unless specified, the BEP produced all stamps.)

A87	1	T.F. Morris	G.F.C. Smillie	James Kennedy	E.M. Hall
A88 I	2	T.F. Morris	G.F.C. Smillie	James Kennedy	E.M. Hall
A88 II	2	T.F. Morris	H.L. Chorlton	George U. Rose	Geo. U. Rose
A88 III	2	T.F. Morris	-	-	-
A89	3	T.F. Morris	G.F.C. Smillie	James Kennedy	E.M. Hall
A90	4	T.F. Morris	G.F.C. Smillie	James Kennedy	E.M. Hall
A91	5	T.F. Morris	G.F.C. Smillie	James Kennedy	E.M. Hall







A92	6	T.F. Morris	Charles Skinner	James Kennedy	E.M. Hall
A93	8	T.F. Morris	G.F.C. Smillie	James Kennedy	E.M. Hall
A94	10	T.F. Morris	M.W. Baldwin	James Kennedy	E.M. Hall
A95	15	T.F. Morris	G.F.C. Smillie	James Kennedy	E.M. Hall
A96	50	T.F. Morris	W.G. Phillips	Lyman F. Ellis	E.M. Hall
A97	$1	T.F. Morris	W.G. Phillips	-	E.M. Hall
A98	$2	T.F. Morris	G.F.C. Smillie	Lyman F. Ellis	E.M. Hall
A99	$5	T.F. Morris	W.G. Phillips	James Kennedy	E.M. Hall

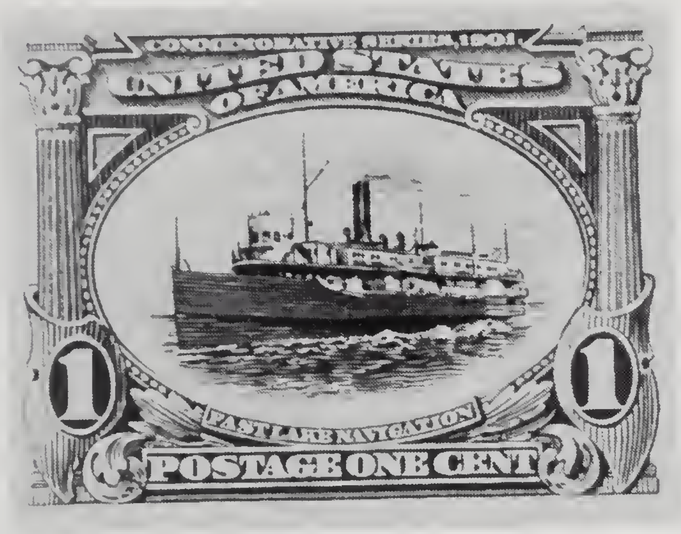
1898

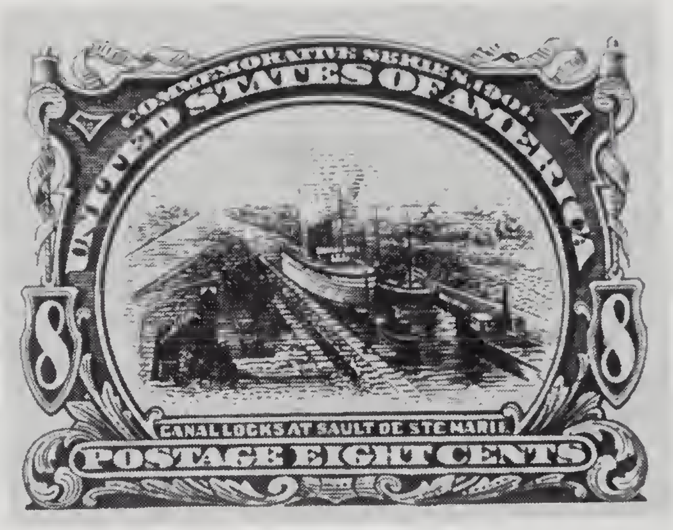
A100	1	R.O. Smith	G.F.C. Smillie	D.S. Ronaldson	D.S. Ronaldson
A101	2	R.O. Smith	M.W. Baldwin	D.S. Ronaldson	D.S. Ronaldson
A102	4	R.O. Smith	G.F.C. Smillie	D.S. Ronaldson	D.S. Ronaldson
A103	5	R.O. Smith	M.W. Baldwin	D.S. Ronaldson	D.S. Ronaldson
A104	8	R.O. Smith	R. Ponickau	D.C. Ronaldson	D.S. Ronaldson
A105	10	R.O. Smith	M.W. Baldwin	D.S. Ronaldson	D.S. Ronaldson

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A106	50	R.O. Smith	G.F.C. Smillie	D.S. Ronaldson	D.S. Ronaldson
A107	$1	R.O. Smith	M.W. Baldwin	D.S. Ronaldson	D.S. Ronaldson
A108	$2	R.O. Smith	M.W. Baldwin	D.S. Ronaldson	D.S. Ronaldson

1901

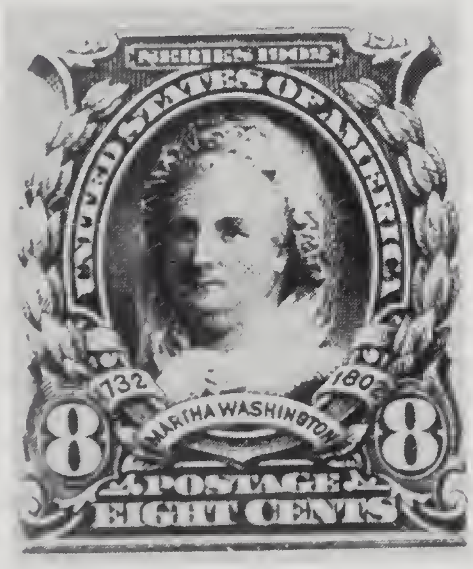
Pan-American Exposition

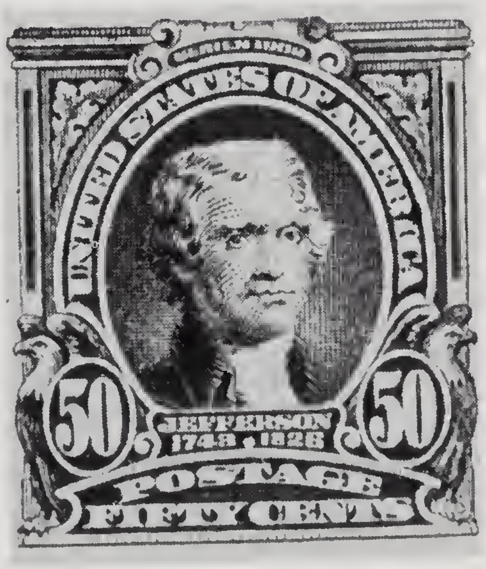




A109	1	R.O. Smith	G.F.C. Smillie	Lyman F. Ellis	R. Ponickau
A110	2	R.O. Smith	M.W. Baldwin	Lyman F. Ellis	R. Ponickau
A111	4	R.O. Smith	M.W. Baldwin	Lyman F. Ellis	R. Ponickau
A112	5	R.O. Smith	M.W. Baldwin	Lyman F. Ellis	R. Ponickau
A113	8	R.O. Smith	M.W. Baldwin	Lyman F. Ellis	R. Ponickau
A114	10	R.O. Smith	M.W. Baldwin	Lyman F. Ellis	R. Ponickau

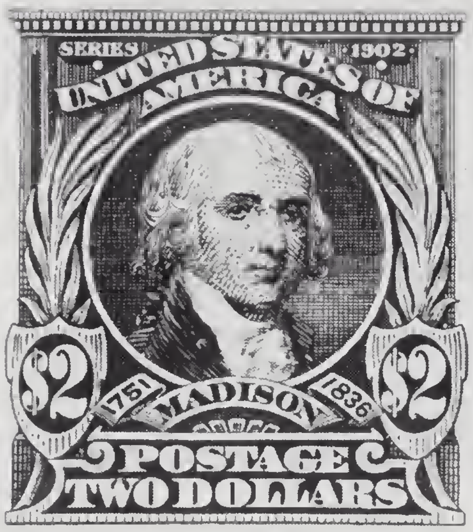
1902 & 1903

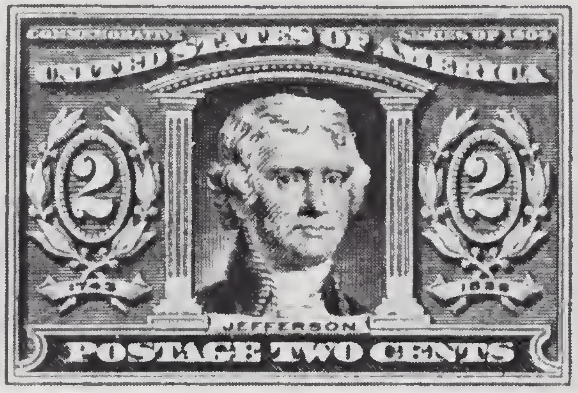


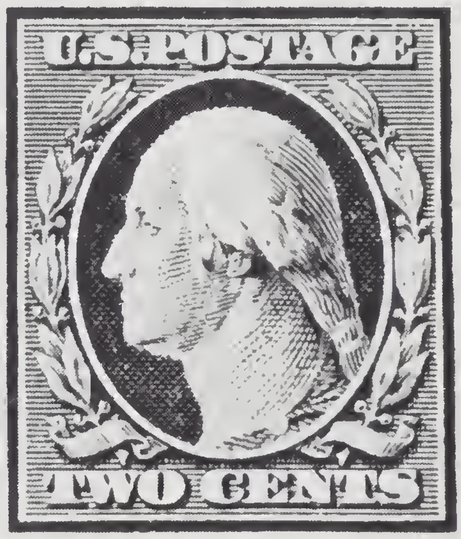


A115	1	R.O. Smith	G.F.C. Smillie	Lyman F. Ellis	G.F.C. Smillie
A116	2	R.O. Smith	G.F.C. Smillie	Geo. U. Rose	R. Ponickau
A117	3	R.O. Smith	G.F.C. Smillie	Geo. U. Rose & E.M. Weeks	R. Ponickau
A118	4	R.O. Smith	G.F.C. Smillie	Geo. U. Rose & Lyman F. Ellis	R. Ponickau
A119	5	R.O. Smith	M.W. Baldwin	Geo. U. Rose & Lyman F. Ellis	R. Ponickau
A120	6	R.O. Smith	G.F.C. Smillie	Geo. U. Rose & Lyman F. Ellis	R. Ponickau
A121	8	R.O. Smith	G.F.C. Smillie	Geo. U. Rose	R. Ponickau
A122	10	R.O. Smith	M.W. Baldwin	Geo. U. Rose &	R. Ponickau
A123	13	R.O. Smith	M.W. Baldwin	Lyman F. Ellis	M.W. Baldwin
A124	15	R.O. Smith	M.W. Baldwin	Lyman F. Ellis	R. Ponickau
A125	50	R.O. Smith	G.F.C. Smillie	Geo. U. Rose	R. Ponickau

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A126	$1	R.O. Smith	M.W. Baldwin	-	R. Ponickau
A127	$2	R.O. Smith	G.F.C. Smillie	Geo. U. Rose & Lyman F. Ellis	R. Ponickau
A128	$5	R.O. Smith	G.F.C. Smillie	Geo. U. Rose	R. Ponickau







1903

A129	2	C.A. Huston	G.F.C. Smillie	Geo. U. Rose	R. Ponickau

1904

Louisiana Purchase Exposition

A130	1	C.A. Huston	M.W. Baldwin	Geo. U. Rose & Lyman F. Ellis	M.W. Baldwin
A131	2	C.A. Huston	G.F.C. Smillie	Geo. U. Rose & Lyman F. Ellis	R. Ponickau
A132	3	C.A. Huston	G.F.C. Smillie	Geo. U., Rose	R. Ponickau
A133	5	C.A. Huston	G.F.C. Smillie	Geo. U. Rose	R. Ponickau
A134	10	C.A. Huston	G.F.C. Smillie	Geo. U. Rose	R. Ponickau

1907

Jamestown Exposition

A135	1	C.A. Huston	M.W. Baldwin	Geo. U. Rose & E.M. Hall	R. Ponickau
A136	2	C.A. Huston	R. Ponickau	E.M. Hall	R. Ponickau
A137	5	C.A. Huston	G.F.C. Smillie	Geo. U. Rose & E.M. Hall	R. Ponickau

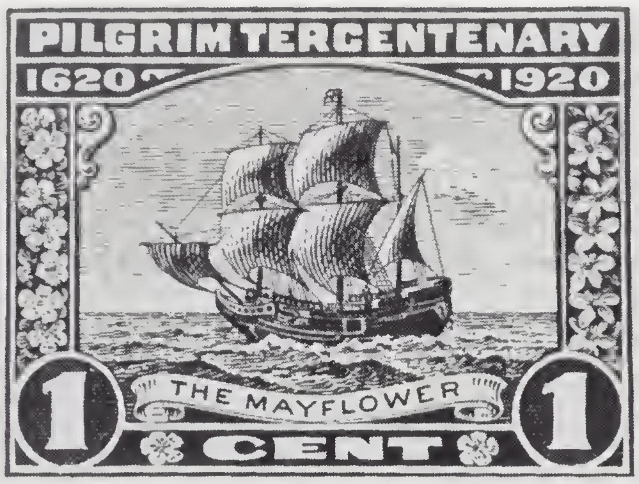
1908 & 1909

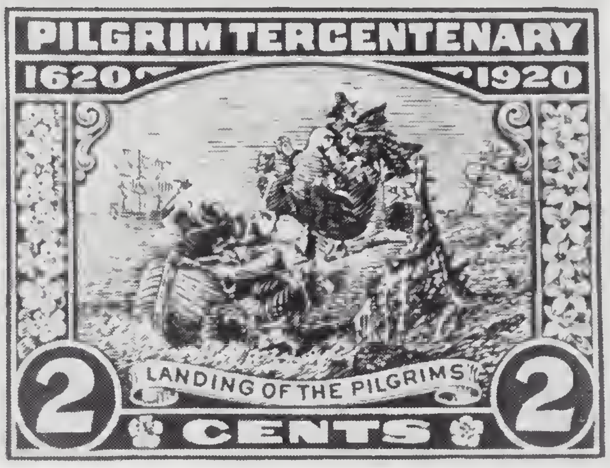
A138	1	C.A. Huston	M.W. Baldwin	E.M. Hall	R. Ponickau
A139	2	C.A. Huston	M.W. Baldwin	E.M. Hall	R. Ponickau
A140	3	C.A. Huston	M.W. Baldwin	E.M. Hall	R. Ponickau
A140	4	C.A. Huston	M.W. Baldwin	E.M. Hall & J.C. Benzing	R. Ponickau

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A140	5	C.A. Huston	M.W. Baldwin	E.M. Hall & J.C. Benzing	R. Ponickau
A140	6	C.A. Huston	M.W. Baldwin	E.M. Hall	R. Ponickau
A140	8	C.A. Huston	M.W. Baldwin	E.M. Hall	R. Ponickau
A140	10	C.A. Huston	M.W. Baldwin	E.M. Hall	R. Ponickau
A140	13	C.A. Huston	M.W. Baldwin	E.M. Hall & J.C. Benzing	R. Ponickau
A140	15	C.A. Huston	M.W. Baldwin	E.M. Hall & Geo. U. Rose	R. Ponickau
A140	50	C.A. Huston	M.W. Baldwin	E.M. Hall & J.C. Benzing	R. Ponickau
A140	$1	C.A. Huston	M.W. Baldwin	E.M. Hall & J.C. Benzing	R. Ponickau
Lincoln Memorial					
A141	2	C.A. Huston	M.W. Baldwin	E.M. Hall & J.C. Benzing	R. Ponickau
Alaska-Yukon Pacific Exposition					
A142	2	C.A. Huston	M.W. Baldwin	E.M. Hall	R. Ponickau
Hudson-Fulton Celebration					
A143	2	C.A. Huston	M.W. Baldwin	E.M. Hall	R. Ponickau
1912-1914					
A148	7	C.A. Huston	M.W. Baldwin	C.M. Chalmers, H.L. Chorlton & E.M. Hall	F. Lamasure
A148	8	C.A. Huston	M.W. Baldwin	C.M. Chalmers & E.M. Hall	L.S. Schofield
A148	9	C.A. Huston	M.W. Baldwin	C.M. Chalmers & E.M. Hall	F. Lamasure
A148	10	C.A. Huston	M.W. Baldwin	E.M. Hall	-
A148	11	C.A. Huston	M.W. Baldwin	Chalmers, Hall & R. Ponickau	-
A148	12	C.A. Huston	M.W. Baldwin	Chalmers, Hall & E.M. Weeks	-
A148	15	C.A. Huston	M.W. Baldwin	E.M. Hall	-
A148	20	C.A. Huston	M.W. Baldwin	Chalmers, Hall & E.M. Weeks	-
A148	30	C.A. Huston	M.W. Baldwin	Chalmers, Hall & E.M. Weeks	-
A148	50	C.A. Huston	M.W. Baldwin	E.M. Hall	-
A148	$1	C.A. Huston	M.W. Baldwin	E.M. Hall	-
1915					
Panama-Pacific Exposition					
A144	1	C.A. Huston	John Eissler	E.M. Hall	L.S. Schofield
A145	2	C.A. Huston	M.W. Baldwin	E.M. Hall & J.C. Benzing	L.S. Schofield
A146	5	C.A. Huston	L.S. Schofield	E.M. Hall	C.M. Chalmers
A147	10	C.A. Huston	M.W. Baldwin	E.M. Hall	L.S. Schofield
1917					
A149	$2	C.A. Huston	L.S. Schofield	E.M. Hall	-
A149	$5	C.A. Huston	L.S. Schofield	E.M. Hall	-
1919					
Victory					
A150	3	C.A. Huston	M.W. Baldwin	E.M. Hall	-

1920

Pilgrim Tercentenary

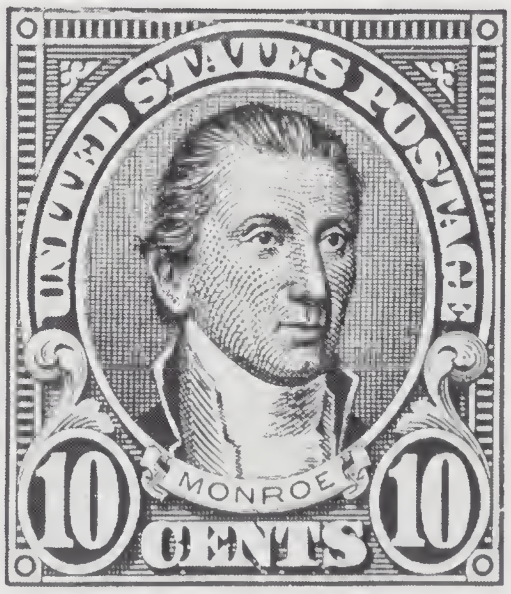




Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A151	1	C.A. Huston	G.F.C. Smillie	E.M. Weeks	L.S. Schofield
A152	2	C.A. Huston	G.F.C. Smillie	E.M. Weeks	L.S. Schofield
A153	5	C.A. Huston	G.F.C. Smillie	E.M. Weeks	L.S. Schofield

1922-1925

A154	½	C.A. Huston	John Eissler	Hall & Weeks	J.C. Benzing
A155	1	C.A. Huston	M.W. Baldwin	E.M. Hall	J.C. Benzing
A156	1½	C.A. Huston	Fred Pauling	Hall & Weeks	W.B. Wells
A157	2	C.A. Huston	M.W. Baldwin	E.E. Myers & E.M. Hall	J.C. Benzing
A158	3	C.A. Huston	John Eissler	E.M. Hall	J.C. Benzing
A159	4	C.A. Huston	L.S. Schofield & L.C. Kauffmann	Hall & Weeks	J.C. Benzing
A160	5	C.A. Huston	John Eissler	Hall & Myers	J.C. Benzing
A161	6	C.A. Huston	John Eissler	E.M. Hall	J.C. Benzing
A162	7	C.A. Huston	L.S. Schofield	Hall & Myers	J.C. Benzing & C.F. Wittenauer
A163	8	C.A. Huston	John Eissler & E.J. Hein	E.M. Hall	J.C. Benzing
A164	9	C.A. Huston	John Eissler & L.C. Kauffmann	E.M. Hall	J.C. Benzing

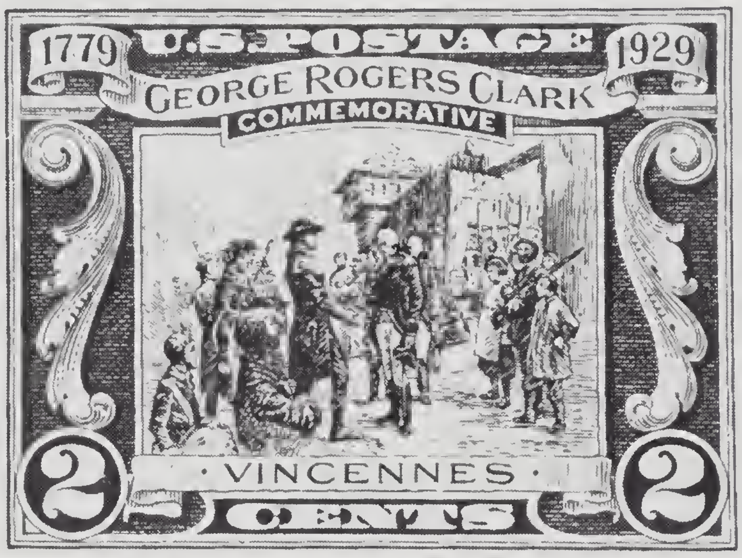


A165	10	C.A. Huston	Eissler & Hein	E.M. Hall	J.C. Benzing
A166	11	C.A. Huston	John Eissler	H.E. Earle & E.M. Hall	J.C. Benzing
A167	12	C.A. Huston	John Eissler	Hall & Weeks	J.C. Benzing
A168	14	C.A. Huston	L.S. Schofield	E.M. Hall & Frank Lamasure	J.C. Benzing
A169	15	C.A. Huston	L.S. Schofield	E.M. Hall & F.W. Montgomery	J.C. Benzing

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A170	20	C.A. Huston	L.S. Schofield	Hall, Myers & E.M. Weeks	J.C. Benzing
A171	25	C.A. Huston	C.M. Chalmers	Hall & Myers	J.C. Benzing
A172	30	C.A. Huston	L.S. Schofield	E.M. Hall	J.C. Benzing & C.M. Chalmers
A173	50	C.A. Huston	L.S. Schofield	Hall & Myers	J.C. Benzing
A174	$1	C.A. Huston	L.S. Schofield	E.M. Hall & W.B. Wells	J.C. Benzing
A175	$2	C.A. Huston	L.S. Schofield & L.C. Kauffmann	E.M. Hall	J.C. Benzing
A176	$5	C.A. Huston	John Eissler	H.I. Earle & E.M. Weeks	-
1923					
Harding Memorial					
A177	1	C.A. Huston	Fred Pauling	E.M. Hall	J.C. Benzing
1924					
Huguenot-Walloon Tercentenary					
A178	1	C.A. Huston	L.S. Schofield	E.M. Hall	H.P. Dawson
A179	2	C.A. Huston	John Eissler	E.M. Hall	H.P. Dawson
A180	5	C.A. Huston	Fred Pauling	E.M. Hall	H.P. Dawson
1925					
SD7	20	C.A. Huston	L.S. Schofield	Earle & Hall	-
Lexington-Concord					
A181	1	C.A. Huston	Fred Pauling & L.S. Schofield	E.M. Weeks	J.C. Benzing
A182	2	C.A. Huston	L.S. Schofield	E.M. Weeks	J.C. Benzing
A183	5	C.A. Huston	J.C. Benzing	E.M. Weeks	J.C. Benzing
Norse-American					
A184	2	C.A. Huston	E.J. Hein	E.M. Hall	W.B. Wells
A185	5	C.A. Huston	J.C. Benzing	E.M. Weeks	
1925-1926					
A186	13	C.A. Huston	John Eissler	E.M. Hall	J.C. Benzing
A187	17	C.A. Huston	John Eissler	E.M. Hall	J.C. Benzing
1926					
Sesquicentennial Exposition					
A188	2	C.A. Huston	John Eissler	E.M. Hall	-
Ericsson Memorial					
A189	4	C.A. Huston	L.S. Schofield	Frank Lamasure	-
Battle of White Plains					
A190	2	C.A. Huston	John Eissler	Howard I. Earle	-
1927					
Vermont Sesquicentennial					
A191	2	C.A. Huston	L.S. Schofield	H.I. Earle, E.M. Hall & W.B. Wells	-
Burgoyne Campaign					
A192	2	C.A. Huston	John Eissler	Frank Lamasure	-
1928					
Valley Forge					
A193	2	C.A. Huston	E.J. Hein & L.S. Schofield	E.M. Hall	-

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Aeronautics Conference					
A194	2	C.A. Huston & A.R. Meissner	J. Benzing & L.S. Schofield	E.M. Hall	-
A195	5	C.A. Huston	L.S. Schofield	E.M. Hall	-

1929



Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
George Rogers Clark					
A196	2	C.A. Huston	L.S. Schofield	E.M. Hall	-
Electric Light Golden Jubilee					
A197	2	A.R. Meissner	J.C. Benzing	E.M. Hall	J.C. Benzing
Sullivan Expedition					
A198	2	C.A. Huston	John Eissler	E.M. Hall & E.H. Helmuth	-
Battle of Fallen Timbers					
A199	2	C.A. Huston	L.S. Schofield	Hall & Helmuth	-
Ohio River Canalization					
A200	2	A.R. Meissner	Fred Pauling	E.M. Hall	-

1930

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A203	1½	C.A. Huston	John Eissler	E.M. Hall	-
A204	4	C.A. Huston	John Eissler	E.M. Hall	-
Massachusetts Bay Colony					
A201	2	C.A. Huston & A.R. Meissner	L.S. Schofield	Hall, D.R. McLeod & McLeod & Wells	-
Carolina-Charleston					
A202	2	C.A. Huston & A.R. Meissner	J.C. Benzing	Frank Lamasure	-
Braddock's Field					
A205	2	A.R. Meissner	John Eissler	Hall, A. Payne & W.B. Wells	-
Von Steuben					
A206	2	A.R. Meissner	L.S. Schofield	H.I. Earle & E.M. Hall	-

1931

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Pulaski					
A207	2	A.R. Meissner	John Eissler	E.M. Hall	-
Red Cross					
A208	2	C.A. Huston & A.R. Meissner	John Eissler	E.M. Hall	C.F. Wittenauer
Yorktown					
A209	2	C.A. Huston	John Eissler	Benzing & Hall	-

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
			1932		
Washington Bicentennial					
A210	½	C.A. Huston	J.C. Benzing	D.R. McLeod	C.F. Wittenauer
A211	1	A.R. Meissner	John Eissler	E.H. Helmuth	E.H. Helmuth
A212	1½	C.A. Huston	J.C. Benzing	W.B. Wells	C.F. Wittenauer
A213	2	C.A. Huston	John Eissler	E.M. Hall	-
A214	3	C.A. Huston	J.C. Benzing	D.R. McLeod	-
A215	4	A.R. Meissner	J.C. Benzing	Frank Lamasure	C.F. Wittenauer
A216	5	A.R. Meissner	John Eissler	H.S. Nutter	-
A217	6	C.A. Huston	L.S. Schofield	E.M. Hall	C.F. Wittenauer
A218	7	C.A. Huston	L.S. Schofield	E.H. Helmuth	C.F. Wittenauer
A219	8	C.A. Huston	E.J. Hein	W.B. Wells	-
A220	9	C.A. Huston	L.S. Schofield	E.M. Hall	C.F. Wittenauer
A221	10	A.R. Meissner	E.J. Hein	H.S. Nutter	-
Winter Olympic Games					
A222	2	A.R. Meissner	John Eissler	E.M. Hall	-
Arbor Day					
A223	2	A.R. Meissner	John Eissler	E.M. Hall	-
Summer Olympic Games					
A224	3	V.S. McCloskey	John Eissler	E.M. Hall	-
A225	5	V.S. McCloskey	L.S. Schofield	E.M. Hall	-
A226	3	C.A. Huston	John Eissler	E.M. Hall	-
William Penn					
A227	3	V.S. McCloskey & A.R. Meissner	John Eissler	E.M. Hall	-
Daniel Webster					
A228	3	C.A. Huston	John Eissler	W.B. Wells	W.B. Wells
			1933		
Georgia Bicentennial					
A229	3	C.A. Huston	John Eissler	Hall & Wells	-
Peace Commemoration					
A230	3	A.R. Meissner	L.S. Schofield	Hall & Wells	-
Century of Progress					
A231	1	V.S. McCloskey	L.S. Schofield	W.B. Wells	W.B. Wells
A232	3	V.S. McCloskey	John Eissler	E.M. Hall	-
National Recovery Administration					
A233	3	V.S. McCloskey	L.S. Schofield	W.B. Wells	-
Byrd Antarctic Expedition					
A234	3	V.S. McCloskey	J.C. Benzing	Lamasure & Wells	-
Kosciuszko					
A235	5	V.S. McCloskey	J.C. Benzing	E.M. Hall	-
			1934		
Maryland Tercentenary					
A236	3	A.R. Meissner	J.C. Benzing	E.M. Hall	-
Mothers of America					
A237	3	V.S. McCloskey	J.C. Benzing	Hall & Wells	-
Wisconsin Tercentenary					
A238	3	V.S. McCloskey	Carl T. Arlt	E.H. Helmuth	E.H. Helmuth
National Parks					
A239	1	V.S. McCloskey	J.C. Benzing	W.B. Wells	-
A240	2	V.S. McCloskey	L.S. Schofield	W.B. Wells	-
A241	3	V.S. McCloskey	J.C. Benzing	W.B. Wells	-
A242	4	V.S. McCloskey	Carl T. Arlt	E.H. Helmuth	E.H. Helmuth
A243	5	V.S. McCloskey	Carl T. Arlt	W.B. Wells	W.B. Wells
A244	6	V.S. McCloskey	L.S. Schofield	D.R. McLeod	-

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A245	7	V.S. McCloskey	J.C. Benzing	McLeod & Helmuth	-
A246	8	V.S. McCloskey	Carl T. Arlt	D.R. McLeod	-
A247	9	V.S. McCloskey	Carl T. Arlt	W.B. Wells	-
A248	10	Esther Richards	L.S. Schofield	E.H. Helmuth	-
			1935		
Connecticut Tercentenary					
A249	3	V.S. McCloskey	J.C. Benzing	W.B. Wells	W.B. Wells
California Pacific Exposition					
A250	3	A.R. Meissner	Carl T. Arlt	W.B. Wells	W.B. Wells
Boulder Dam					
A251	3	V.S. McCloskey	Carl T. Arlt	E.M. Hall	-
Michigan Centenary					
A252	3	A.R. Meissner	L.C. Kauffmann	E.M. Hall	-
			1936		
Texas Centennial					
A253	3	A.R. Meissner	*Houston* by Arlt; *Austin* by Kauffman; the *Alamo* by Pauling	W.B. Wells	W.B. Wells
Rhode Island Tercentenary					
A254	3	A.R. Meissner	Carl T. Arlt	D.R. McLeod & W.B. Wells	-
Arkansas Centennial					
A255	3	A.R. Meissner	Carl T. Arlt	Hall & Wells	-
Oregon Territory Centennial					
A256	3	A.R. Meissner	Carl T. Arlt	G.L. Huber & W.B. Wells	-
Susan B. Anthony					
A257	3	V.S. McCloskey	Carl T. Arlt	E.M. Hall	J.C. Benzing
			1936-1937		
Army					
A258	1	W.K. Schrage	*Mt. Vernon* by M.D. Fenton; portraits by F. Pauling	E.M. Hall	-
A259	2	W.K. Schrage	J. Eissler (portraits) & H.R. Rowan	E.M. Hall	-
A260	3	V.S. McCloskey	Fred Pauling	E.M. Weeks	-
A261	4	W.K. Schrage	*Jackson* by Eissler; *Lee* & vignette by Kauffmann	E.M. Hall	-
A262	5	L.E. Schick	Carl T. Arlt	E.M. Hall	-
Navy					
A263	1	A.R. Meissner	Carl T. Arlt & L.C. Kauffmann	Carl T. Arlt	Carl T. Arlt
A264	2	A.R. Meissner	Carl T. Arlt & J. Eissler	E.M. Weeks	Carl T. Arlt
A265	3	A.R. Meissner	Carl T. Arlt; Kauffmann (portraits)	W.B. Wells	-
A266	4	A.R. Meissner	J. Eissler	W.B. Wells	W.B. Wells
A267	5	A.R. Meissner	Fred Pauling	W.B. Wells	W.B. Wells
			1937		
Ordinance of 1787 Sesquicentennial					
A268	3	A.R. Meissner	Huber (map); Kauffmann (portraits)	W.B. Wells	-

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Virginia Dare					
A269	5	W.A. Roach & W.K. Schrage	Carl T. Arlt	E.M. Weeks	-
Constitution Sesquicentennial					
A270	3	A.R. Meissner & J.B. Stearns	John Eissler	W.B. Wells	Carl T. Arlt
Hawaii Territory					
A271	3	W.A. Roach	C. Chalmers	James T. Bayer	A.R. Meissner
Alaska Territory					
A272	3	V.S. McCloskey	Carl T. Arlt	W.B. Wells	W.B. Wells
Puerto Rico Territory					
A273	3	W.A. Roach & W.K. Schrage	John Eissler	G.L. Huber	G.L. Huber
Virgin Islands Territory					
A274	3	V.S. McCloskey	Carl T. Arlt	James T. Vail	James T. Vail
			1938		
Presidents					
A275	½	W.K. Schrage	John Eissler	James T. Vail	-
A276	1	E. Rawlinson	John Eissler	James T. Vail	-
A277	1½	W.K. Schrage	L.C. Kauffmann	James T. Vail	-
A278	2	W.K. Schrage	C.A. Brooks	James T. Vail	-
A279	3	W.K. Schrage	Carl T. Arlt	James T. Vail	-
A280	4	W.K. Schrage	L.C. Kauffmann	James T. Vail	-
A281	4½	W.K. Schrage	James R. Lowe	E.M. Weeks	-
A282	5	R.L. Miller	John Eissler	James T. Vail	-
A283	6	W.K. Schrage	Fred Pauling	James T. Vail	-
A284	7	W.K. Schrage	C.A. Brooks	James T. Vail	-
A285	8	W.K. Schrage	C.A. Brooks	James T. Vail	-
A286	9	W.K. Schrage	C.A. Brooks	James T. Vail	-
A287	10	W.K. Schrage	Carl T. Arlt	James T. Vail	-
A288	11	R.L. Miller	L.C. Kauffmann	James T. Vail	-
A289	12	W.K. Schrage	John Eissler	James T. Vail	-
A290	13	W.K. Schrage	Fred Pauling	James T. Vail	-
A291	14	W.K. Schrage	L.C. Kauffmann	James T. Vail	-
A292	15	R.L. Miller	C.A. Brooks	James T. Vail	-
A293	16	W.K. Schrage	Carl T. Arlt	James T. Vail	-
A294	17	W.K. Schrage	L.C. Kauffmann	James T. Vail	-
A295	18	W.A. Roach	Fred Pauling	Alton Payne	-
A296	19	R.L. Miller	C.A. Brooks	G.L. Huber	-
A297	20	W.A. Roach	C.A. Brooks	James T. Vail	-
A298	21	V.S. McCloskey	W.O. Marks	James T. Vail	-
A299	22	V.S. McCloskey	M.D. Fenton	James T. Vail	-
A300	24	V.S. McCloskey	C.A. Brooks	James T. Vail	-
A301	25	V.S. McCloskey	James R. Lowe	James T. Vail	-
A302	30	W.A. Roach	James R. Lowe	Alton Payne	-
A303	50	W.A. Roach	Harry Rollins	James T. Vail	-
A304	$1	V.S. McCloskey	L.C. Kauffmann	G.L. Huber	G.L. Huber
A305	$2	V.S. McCloskey	Fred Pauling	Hall & Huber	G.L. Huber
A306	$5	V.S. McCloskey	John Eissler	Hall & Huber	G.L. Huber
			1938		
Constitution Ratification					
A307	3	V.S. McCloskey	M.D. Fenton	Weeks & Wells	-
Delaware-Swedish-Finnish Tercentenary					
A308	3	A.R. Meissner	Carl T. Arlt	Weeks & Wells	James T. Vail

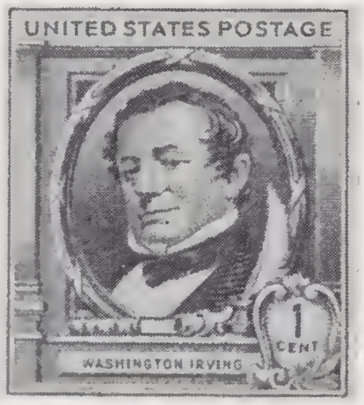
Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Northwest Territory Sesquicentennial					
A309	3	R.L. Miller	Carl T. Arlt	Hall & Huber	-
Iowa Territory Centennial					
A310	3	A.R. Meissner	Carl T. Arlt	W.B. Wells	-

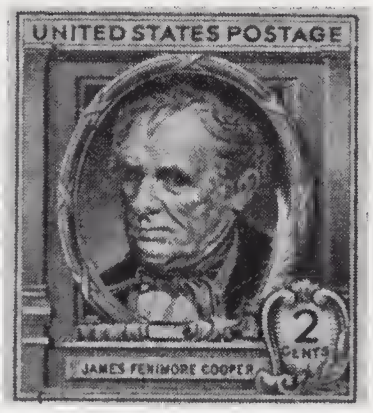
1939

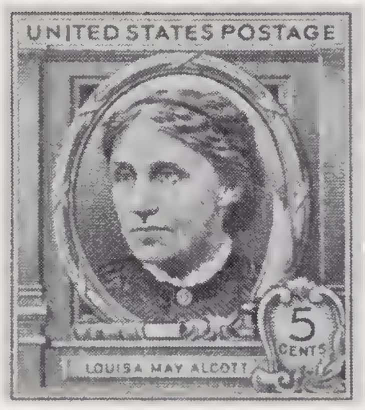
Golden Gate					
A311	3	W.A. Roach	C.A. Brooks	E.M. Hall	-
World's Fair					
A312	3	C.D. Badgely	E.M. Weeks	E.M. Weeks	-
Washington Inaugural					
A313	3	A.R. Meissner	John Eissler	E.M. Weeks	E.M. Weeks
Baseball Centennial					
A314	3	W.A. Roach	C.A. Brooks	James T. Vail	James T. Vail
Canal Zone					
A315	3	W.A. Roach	W.O. Marks	W.B. Wells	W.B. Wells
Printing Press Tercentenary					
A316	3	W.K. Schrage	Carl T. Arlt	Hall, Huber & J.T. Vail	James T. Vail
Statehood					
A317	3	A.R. Meissner	M.D. Fenton	W.B. Wells	W.B. Wells

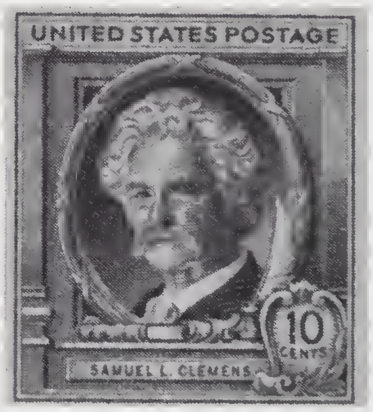
1940
Famous Americans

Authors



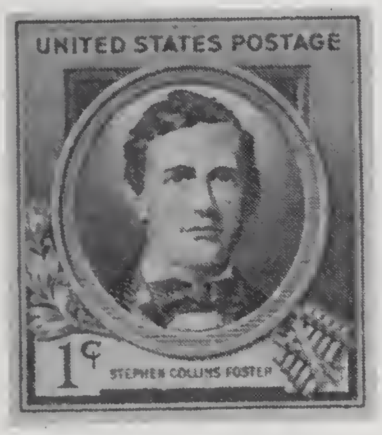


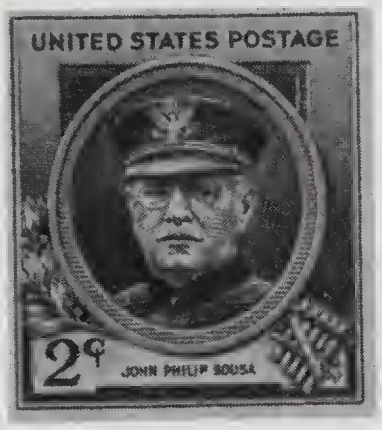




A318	1	W.A. Roach	L.C. Kauffmann	W.B. Wells	Carl T. Arlt
A319	2	W.A. Roach	H.R. Rollins	W.B. Wells	Carl T. Arlt
A320	3	W.A. Roach	Gilroy Roberts	J.T.Vail & Wells	Carl T. Arlt
A321	5	W.A. Roach	John Eissler	W.B. Wells	Carl T. Arlt
A322	10	W.A. Roach	C.A. Brooks	J.T. Vail & Wells	Carl T. Arlt
Poets					
A323	1	W.A. Roach	Carl T. Arlt	W.B. Wells	C.A. Brooks
A324	2	W.A. Roach	W.O. Marks	W.B. Wells	C.A. Brooks
A325	3	W.A. Roach	John Eissler	W.B. Wells	C.A. Brooks
A326	5	W.A. Roach	M.D. Fenton	W.B. Wells	C.A. Brooks
A327	10	W.A. Roach	C.A. Brooks	W.B. Wells	C.A. Brooks
Educators					
A328	1	W.A. Roach	W.O. Marks	Vail & Wells	Carl T. Arlt
A329	2	W.A. Roach	L.C. Kauffmann	Vail & Wells	Carl T. Arlt
A330	3	W.A. Roach	Gilroy Roberts	Vail & Wells	Carl T. Arlt
A331	5	W.A. Roach	J.R. Lowe	Vail & Wells	Carl T. Arlt
A332	10	W.A. Roach	C.A. Brooks	Vail & Wells	Carl T. Arlt

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Scientists					
A333	1	W.A. Roach	C.A. Brooks	W.B. Wells	James T. Vail
A334	2	W.A. Roach	John Eissler	W.B. Wells	James T. Vail
A335	3	W.A. Roach	H.R. Rollins	J.T. Vail	James T. Vail
A336	5	W.A. Roach	L.C. Kauffmann	W.B. Wells	James T. Vail
A337	10	W.A. Roach	Carl T. Arlt	W.B. Wells	James T. Vail
Composers					
A338	1	W.A. Roach	Gilroy Roberts	W.B. Wells	Carl T. Arlt
A339	2	W.A. Roach	C.A. Brooks	W.B. Wells	Carl T. Arlt
A340	3	W.A. Roach	Carl T. Arlt	W.B. Wells	Carl T. Arlt
A341	5	W.A. Roach	John Eissler	W.B. Wells	Carl T. Arlt
A342	10	W.A. Roach	L.C. Kauffmann	W.B. Wells	Carl T. Arlt
Artists					
A343	1	W.A. Roach	W.O. Marks	Vail & Wells	Carl T. Arlt
A344	2	W.A. Roach	M.D. Fenton	Vail & Wells	Carl T. Arlt
A345	3	W.A. Roach	M.D. Fenton	Vail & Wells	Carl T. Arlt
A346	5	W.A. Roach	J.R. Lowe	Vail & Wells	Carl T. Arlt
A347	10	W.A. Roach	H.R. Rollins	Vail & Wells	Carl T. Arlt
Inventors					
A348	1	W.A. Roach	Gilroy Roberts	James T. Vail	James T. Vail
A349	2	W.A. Roach	C.A. Brooks	James T. Vail	James T. Vail
A350	3	W.A. Roach	John Eissler	James T. Vail	James T. Vail
A351	5	W.A. Roach	L.C. Kauffmann	James T. Vail	James T. Vail
A352	10	W.A. Roach	W.O. Marks	James T. Vail	James T. Vail
Pony Express					
A353	3	W.A. Roach	C.A. Brooks	J.S. Edmondson	-
Pan-American Union					
A354	3	W.A. Roach	Carl T. Arlt	James T. Vail	-
Idaho Statehood					
A355	3	W.K. Schrage	J.R. Lowe	J.S. Edmondson	-
Wyoming Statehood					
A356	3	A.R. Meissner	C.A. Brooks	E.H. Helmuth	-
Coronado Expedition					
A357	3	V.S. McCloskey	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
National Defense Series					
A358	1	W.A. Roach	Carl T. Arlt	Vail & Wells	Vail & Wells
A359	2	W.A. Roach	H.R. Rollins	W.B. Wells	W.B. Wells
A360	3	W.A. Roach	J.R. Lowe	E.H. Helmuth	E.H. Helmuth
13th Amendment					
A361	3	W.A. Roach	Carl T. Arlt	James T. Vail	James T. Vail
			1941		
Vermont Statehood					
A362	3	A.R. Meissner	Carl T. Arlt	James T. Vail	James T. Vail





Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
			1942		
Kentucky Statehood					
A363	3	W.A. Roach	C.A. Brooks	A.W. Christensen	A.W. Christensen
Win the War					
A364	3	Mark O'Dea & W.A. Roach	J.S. Edmondson	J.S. Edmondson	-
China Commemorative					
A365	5	W.A. Roach	*S.Y. Sen* by Arlt; *Lincoln* by Kauffmann; *Map* by R.K. Barrick	A.W. Christensen	-
			1943		
United Nations					
A366	2	Leon Helguera	C.A. Brooks	A.W. Christensen	-
Four Freedoms					
A367	1	Paul Manship	Carl T. Arlt	James T. Vail	Carl T. Arlt
Overrun Nations					
A368	5	A.E. Foringer	- (ABNCo)	-	Arthur C. Vogel
			1944		
Railroad					
A369	3	W.A. Roach	Carl T. Arlt	A.W. Christensen	A.W. Christensen
Steamship					
A370	3	V.S. McCloskey	C.A. Brooks	James T. Vail	-
Telegraph					
A371	3	V.S. McCloskey	Carl T. Arlt	J.S. Edmondson	J.S. Edmondson
Philippines					
A372	3	W.A. Roach	C.A. Brooks	A.W. Christensen	A.W. Christensen
Motion Pictures					
A373	3	W.A. Roach	Carl T. Arlt	Charles A. Smith	Charles A. Smith
Florida Statehood					
A374	3	W.A. Roach	C.A. Brooks	A.W. Christensen	A.W. Christensen
			1945		
United Nations Conference					
A375	5	V.A. McCloskey	C.A. Brooks	A.W. Christensen	A.W. Christensen
Iwo Jima					
A376	3	V.S. McCloskey	C.A. Brooks	E.H. Helmuth	E.H. Helmuth
			1945-1946		
Franklin D. Roosevelt					
A377	1	V.S. McCloskey	Brooks & Fenton	A.W. Christensen	A.W. Christensen
A378	2	W.K. Schrage	Brooks & Fenton	J.S. Edmondson	J.S. Edmondson
A379	3	V.S. McCloskey	Brooks & Fenton	A.W. Christensen	A.W. Christensen
A380	5	W.A. Roach	Brooks & Fenton	A.W. Christensen	Charles A. Smith
(C.A. Brooks engraved the portrait and M. Fenton executed the vignette on Nos. 377-380.)					
			1945		
Army					
A381	3	W.A. Roach	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Navy					
A382	3	V.S. McCloskey	M.D. Fenton	Geo. L. Huber	Geo. L. Huber
Coast Guard					
A383	3	K.P. Riley; W.K. Schrage*	E.R. Grove	Charles A Smith	Charles A. Smith

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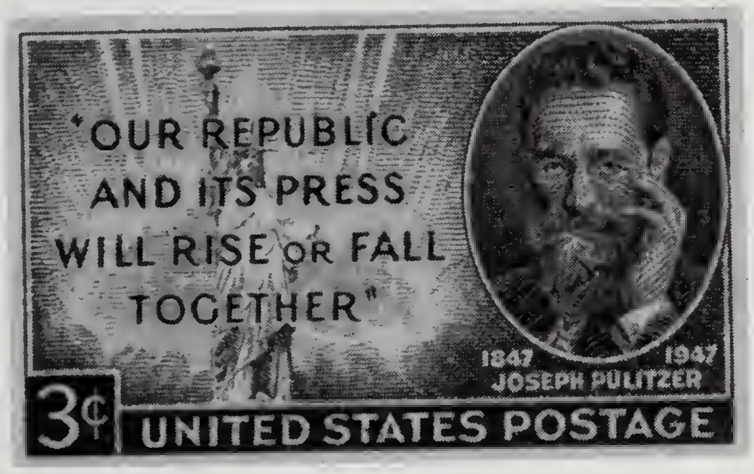
* Modeler.

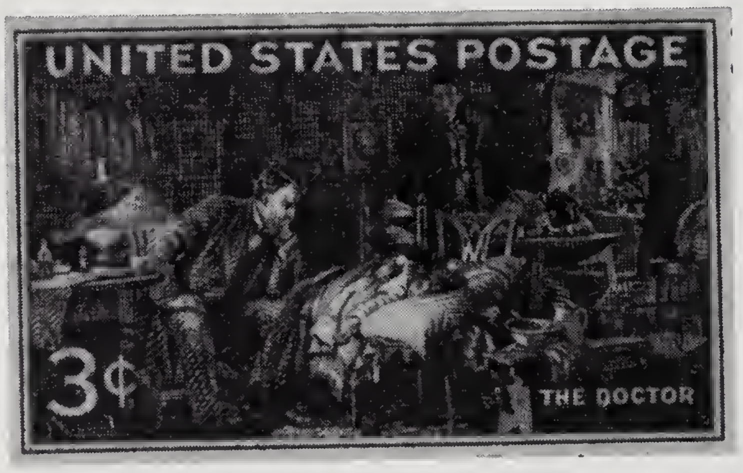
Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Alfred E. Smith					
A384	3	V.S. McCloskey	Carl T. Arlt	A.W. Christensen	A.W. Christensen
Texas Statehood					
A385	3	Buchman Winn	E.R. Grove	E.H. Helmuth	E.H. Helmuth

1946

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Merchant Marine					
A386	3	V.S. McCloskey	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
Veterans of World War II					
A387	3	V.S. McCloskey	E.R. Grove	A.W. Christensen	A.W. Christensen
Tennessee Statehood					
A388	3	V.S. McCloskey	*Jackson* (Brooks); *Sevier & Capitol* (Arlt)	A.W. Christensen	A.W. Christensen
Iowa Statehood					
A389	3	V.S. McCloskey	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
Smithsonian Institution					
A390	3	W.K. Schrage	E.R. Grove	Charles A. Smith	Charles A. Smith
Kearney Expedition					
A391	3	W.K. Schrage	Carl T. Arlt	J.S. Edmondson	J.S. Edmondson

1947


"OUR REPUBLIC AND ITS PRESS WILL RISE OR FALL TOGETHER"
1847
1947
JOSEPH PULITZER
3¢
UNITED STATES POSTAGE



Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Thomas A. Edison					
A392	3	W.A. Roach	Carl T. Arlt	J.S. Edmondson	Edmondson & Vail
Joseph Pulitzer					
A393	3	V.S. McCloskey	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
U.S. Postage Stamp Centenary					
A394	3	Leon Helguera; V.S. McCloskey*	*Franklin* & vignette (M. Fenton); *Washington* (E.R. Grove)	A.W. Christensen	A.W. Christensen
International Philatelic Exhibition					
A395	5	R.L. Miller	C.A. Brooks	A.W. Christensen	A.W. Christensen
A395	10	R.L. Miller	Carl T. Arlt	A.W. Christensen	Carl T. Arlt
Doctors					
A396	3	C.R. Chickering	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Utah Settlement Centenary					
A397	3	C.R. Chickering	M.D. Fenton	E.H. Helmuth	E.H. Helmuth
U.S. Frigate Constitution					
A398	3	A.H. Hepburn	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
Everglades National Park					
A399	3	Garnet Magee	A.W. Dintaman	A.W. Christensen	A.W. Christensen
George Washington Carver					
A400	3	W.A. Roach	E.R. Grove	A.W. Christensen	James T. Vail

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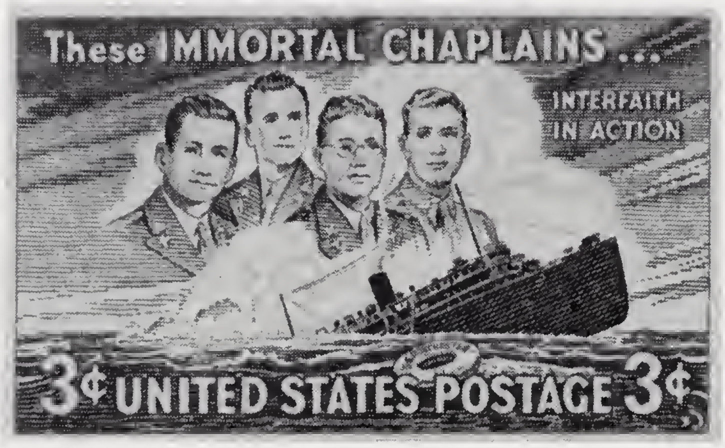
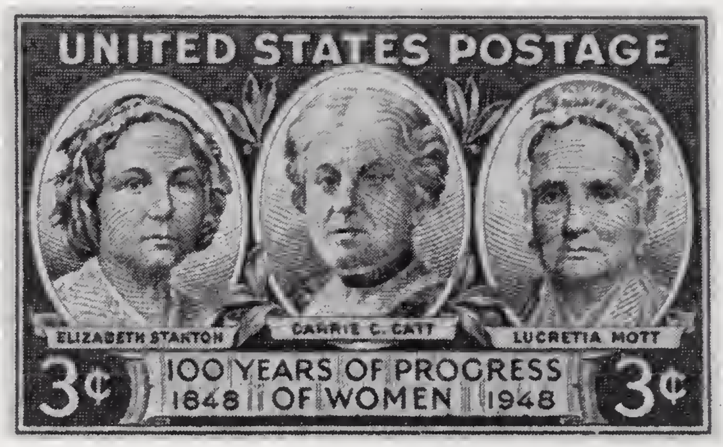
* Modeler. If only one name appears, the designer was also the modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
			1948		
California Gold Centennial					
A401	3	C.R. Chickering*	M.D. Fenton	A.W. Christensen	A.W. Christensen
Mississippi Territory					
A402	3	W.T. Robinson	M.D. Fenton	A.W. Christensen	-
Four Chaplains					
A403	3	C.R. Chickering*	M.D. Fenton	E.H. Helmuth	-
Wisconsin Centennial					
A404	3	V.S. McCloskey	R.M. Bower	Charles A. Smith	Charles A. Smith
Swedish Pioneer Centennial					
A405	3	C.R. Chickering	Carl T. Arlt	A.W. Christensen	A.W. Christensen
Progress of Women					
A406	3	V.S. McCloskey	Carl T. Arlt	J.S. Edmondson	J.S. Edmondson
William Allen White					
A407	3	W.A. Roach; C.R. Chickering*	C.A. Brooks	A.W. Christensen	Carl T. Arlt
United States-Canada Friendship					
A408	3	Leon Helguera; V.S. McCloskey*	G.A. Gundersen	J.S. Edmondson	J.S. Edmondson
Francis Scott Key					
A409	3	V.S. McCloskey	R.M. Bower	J.S. Edmondson	J.S. Edmondson
Salute to Youth					
A410	3	V.S. McCloskey	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
Oregon Territory Centennial					
A411	3	C.R. Chickering	Carl T. Arlt	A.W. Christensen	E.H. Helmuth
Harlan Fiske Stone					
A412	3	C.R. Chickering	Carl T. Arlt	A.W. Christensen	A.W. Christensen
Palomar Mountain Observatory					
A413	3	V.S. McCloskey	G.A. Gundersen	E.H. Helmuth	E.H. Helmuth
Clara Barton					
A414	3	C.R. Chickering	C.A. Brooks	E.H. Helmuth	E.H. Helmuth
Poultry Industry					
A415	3	C.R. Chickering	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
Gold Star Mothers					
A416	3	C.R. Chickering	A.W. Dintaman	R.K. Barrick	R.K. Barrick
Fort Kearny Centennial					
A417	3	W.K. Schrage	G.A. Gundersen	A.W. Christensen	A.W. Christensen
Volunteer Firemen					
A418	3	W.K. Schrage	R.M. Bower	J.S. Edmondson	-
Indian Centennial					
A419	3	R.L. Miller	C.A. Brooks	A.W. Christensen	A.W. Christensen
Rough Riders					
A420	3	V.S. McCloskey	Arlt & Brooks	E.H. Helmuth	Charles A. Brooks





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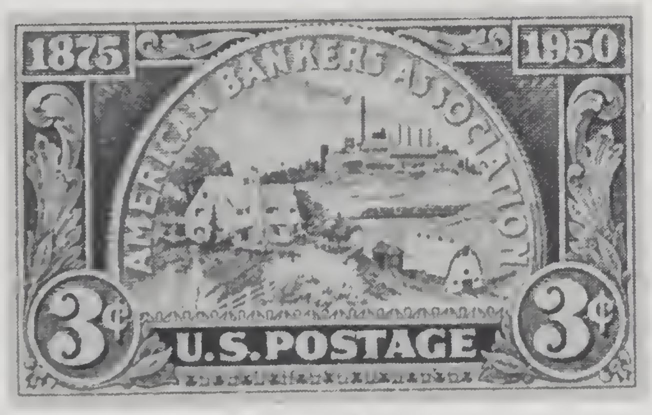
* Modeler. If only one name appears, the designer was also the modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Juliette Low					
A421	3	W.K. Schrage	G.A. Gundersen	J.S. Edmondson	A.W. Christensen
Will Rogers					
A422	3	C.R. Chickering	M.D. Fenton	A.W. Christensen	A.W. Christensen
Fort Bliss Centennial					
A423	3	C.R. Chickering	C.A. Brooks	A.W. Christensen	A.W. Christensen
Moina Michael					
A424	3	Mae Michael; V.S. McCloskey*	C.A. Brooks	E.H. Helmuth	E.H. Helmuth
Gettysburg Address					
A425	3	C.R. Chickering	R.M. Bower	A.W. Christensen	A.W. Christensen
American Turners					
A426	3	A.R. Meissner	A.W. Dintaman	Charles A. Smith	Charles A. Smith
Joel Chandler Harris					
A427	3	W.A. Roach; W.K. Schrage*	R.M. Bower	W.B. Wells	Carl T. Arlt
Minnesota Territory Centennial					
A428	3	F. Glindmier; C.R. Chickering*	C.A. Brooks	Geo. A. Payne	Geo. A. Payne

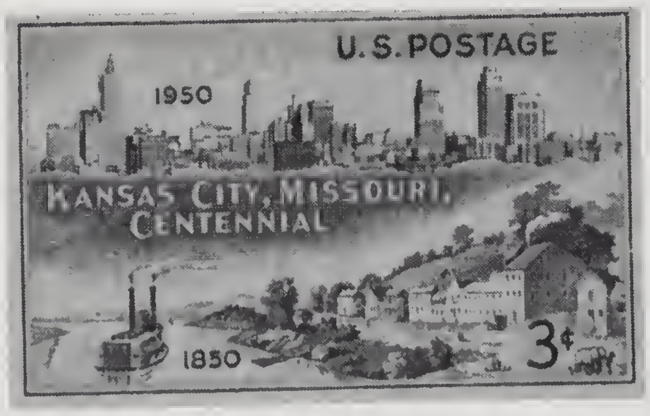
1949

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Washington and Lee University					
A429	3	R.J. Grimley; V.S. McCloskey*	*Washington* (Grove); *Lee* (Gundersen)	Geo. L. Huber	Geo. L. Huber
Puerto Rico (First Election)					
A430	3	Irene Delano; C.R. Chickering*	G.A. Gundersen	J.S. Edmondson	J.S. Edmondson
Annapolis Tercentenary					
A431	3	F.T. Morgan; C.R. Chickering*	G.A. Gundersen	E.H. Helmuth	E.H. Helmuth
Grand Army of the Republic					
A432	3	C.R. Chickering	C.A. Brooks	A.W. Christensen	A.W. Christensen
Edgar Allan Poe					
A433	3	W.A. Roach; R.L. Miller*	R.M. Bower	A.W. Christensen & W.B. Wells	C.A. Brooks

1950



A434



A441

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
American Bankers Association					
A434	3	C.R. Chickering	G.A. Gundersen	J.S. Edmondson	J.S. Edmondson
Samuel Gompers					
A435	3	V.S. McCloskey	C.A. Brooks	A.W. Christensen	C.A. Brooks
National Capitol Sesquicentennial					
A436	3	V.S. McCloskey	C.A. Brooks	A.W. Christensen	C.A. Brooks

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* Modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Executive Mansion					
A437	3	W.K. Schrage	M.D. Fenton	E.H. Helmuth	E.H. Helmuth
Supreme Court					
A438	3	C.R. Chickering	G.A. Gundersen	J.S. Edmondson	J.S. Edmondson
U.S. Capitol					
A439	3	R.L. Miller	Carl T. Arlt	J.S. Edmondson	Carl T. Arlt
Railroad Engineers					
A440	3	C.R. Chickering	C.A. Brooks	A.W. Christensen	A.W. Christensen
Kansas City, Missouri Centennial					
A441	3	Louis Dietzel; V.S. McCloskey*	R.M. Bower	A.W. Christensen	A.W. Christensen
Boy Scouts					
A442	3	C.R. Chickering	C.A. Brooks	E.H. Helmuth	E.H. Helmuth
Indiana Territory Sesquicentennial					
A443	3	C.A. Chickering	G.A. Gundersen	A.W. Christensen	A.W. Christensen
California Statehood					
A444	3	V.A. McCloskey	M.D. Fenton	A.W. Christensen	A.W. Christensen
			1951		
United Confederate Veterans					
A445	3	C.R. Chickering	C.A. Brooks	A.W. Christensen	A.W. Christensen
Nevada Centennial					
A446	3	C.R. Chickering	C.A. Brooks	E.H. Helmuth	E.H. Helmuth
Landing of Cadillac					
A447	3	V.S. McCloskey	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Colorado Statehood					
A448	3	W.K. Schrage	G.A. Gundersen	J.S. Edmondson	J.S. Edmondson
American Chemical Society					
A449	3	C.R. Chickering	H.F. Fichter	J.S. Edmondson	J.S. Edmondson
Battle of Brooklyn					
A450	3	Eugene Craig & C.R. Chickering*	C.A. Brooks	J.S. Edmondson	C.A. Brooks
			1952		
Betsy Ross					
A451	3	V.A. McCloskey	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
4-H Club					
A452	3	C.R. Chickering	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
B&O Railroad					
A453	3	Kramer-Bodine Studios & C.R. Chickering*	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
American Automobile Association					
A454	3	C.R. Chickering*	R.M. Bower	Geo. A. Payne	Geo. A. Payne
NATO					
A455	3	C.R. Chickering*	A.W. Dintaman	R.J. Jones	-
Grand Coulee Dam					
A456	3	C.R. Chickering	H.F. Fichter	Charles A. Smith	Charles A. Smith
Lafayette					
A457	3	V.S. McCloskey	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Mt. Rushmore Memorial					
A458	3	W.K. Schrage	M.D. Fenton	Geo. A. Payne	Geo. A. Payne
Engineering Centennial					
A459	3	V.S. McCloskey	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
Service Women					
A460	3	W.K. Schrage*; R.L. Miller*	C.A. Brooks	J.S. Edmondson	C.A. Brooks

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* Modeler. If only one name appears, the designer was also the modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Gutenberg Bible					
A461	3	V.S. McCloskey	A.W. Dintaman	J.S. Edmondson	J.S. Edmondson
Newspaper Boys					
A462	3	F.O. Alexander; C.R. Chickering•	R.M. Bower	R.J. Jones	-
Red Cross					
A463	3	V.S. McCloskey	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
1953					
National Guard					
A464	3	C.R. Chickering	H.F. Fichter	J.S. Edmondson	J.S. Edmondson
Ohio Statehood					
A465	3	R.D. West; V.S. McCloskey•	M.D. Fenton	Geo. A. Payne	Geo. A. Payne
Washington Territory					
A466	3	James A. Wehn; C.R. Chickering•	R.M. Bower	J.S. Edmondson	J.S. Edmondson
Louisiana Purchase					
A467	3	W.K. Schrage	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Opening of Japan Centennial					
A468	3	C.R. Chickering	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
American Bar Association					
A469	3	W.K. Schrage	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Sagamore Hill					
A470	3	W.K. Schrage	R.M. Bower	R.J. Jones	R.J. Jones
Future Farmers of America					
A471	3	R.L. Miller; W.K. Schrage	A.W. Dintaman	Geo .L. Huber	Geo. L. Huber
Trucking Industry					
A472	3	W.K. Schrage	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
General George S. Patton					
A473	3	W.K. Schrage	M.D. Fenton	Geo. A. Payne	Geo. A. Payne
New York City					
A474	3	C.R. Chickering	J.S. Edmondson	R.M. Bower	J.S. Edmondson
Gadsden Purchase					
A475	3	C.R. Chickering	A.W. Dintaman	R.J. Jones	R.J. Jones
1954					
Columbia University					
A476	3	V.S. McCloskey	C.A. Brooks	J.S. Edmondson	C.A. Brooks
1954-1958					
A477	½	C.R. Chickering	C.A. Brooks	R.J. Jones	C.A. Brooks
A478	1	C.R. Chickering	R.M. Bower	J.S. Edmondson	C.A. Brooks
A479	1½	W.K. Schrage	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
A480	2	C.R. Chickering	C.A. Brooks	J.S. Edmondson	C.A. Brooks
A481	2½	R.L. Miller	A.W. Dintaman	J.S. Edmondson	-
A482	3	C.R. Chickering	R.M. Bower	Geo. L. Huber	R.M. Bower
A483	4	C.R. Chickering	R.M. Bower	J.S. Edmondson	C.A. Brooks
A484	4½	C.R. Chickering	M.D. Fenton	Geo. A. Payne	-
A485	5	C.R. Chickering	A.W. Dintaman	J.S. Edmondson	C.A. Brooks
A486	6	C.R. Chickering & V.S. McCloskey	M.D. Fenton	Geo. A. Payne	C.A. Brooks
A487	7	C.R. Chickering	R.M. Bower	R.J. Jones	C.A. Brooks

• Modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
A488	8	C.R. Chickering	M.D. Fenton	R.K. Barrick & J.S. Edmondson	C.A. Brooks
A490	9	C.R. Chickering	R.M. Bower	H.F. Sharpless	-
A491	10	C.R. Chickering	C.A. Brooks	Geo. L. Huber	-
A492	12	C.R. Chickering & V.S. McCloskey	R.M. Bower	Charles A. Smith	Charles A. Smith
A493	15	C.R. Chickering & V.S. McCloskey	A.W. Dintaman	Geo. A. Payne	A.W. Dintaman
A494	20	W.K. Schrage	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
A495	25	V.S. McCloskey	R.M. Bower	J.S. Edmondson	R.M. Bower
A496	30	C.R. Chickering & W.K. Schrage	M.D. Fenton	R.J. Jones	C.A. Brooks
A497	40	C.R. Chickering	R.M. Bower	J.S. Edmondson	C.A. Brooks
A498	50	C.R. Chickering	C.A. Brooks	J.S. Edmondson	C.A. Brooks
A499	$1	C.R. Chickering & V.S. McCloskey	A.W. Dintaman	J.S. Edmondson	C.A. Brooks
A500	$5	C.R. Chickering & V.S. McCloskey	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
			1954		
Nebraska Territory					
A507	3	C.R. Chickering	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Kansas Territory					
A508	3	C.R. Chickering	R.M. Bower	R.J. Jones	R.J. Jones
George Eastman					
A509	3	W.K. Schrage	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Lewis & Clark Expedition					
A510	3	C.R. Chickering	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
			1955		
Pennsylvania Academy of the Fine Arts					
A511	3	V.S. McCloskey	C.A. Brooks	R.J. Jones	C.A. Brooks
Land Grant College Centennial					
A512	3	W.K. Schrage	A.W. Dintaman	R.J. Jones	R.J. Jones
Rotary International					
A513	8	W.W. Wind; C.R. Chickering•	R.M. Bower	Geo. L. Huber	Geo. L. Huber
Armed Forces Reserve					
A514	3	C.R. Chickering	C.A. Brooks	R.J. Jones	R.J. Jones
New Hampshire					
A515	3	Alice Cosgrove; W.K. Schrage•	R.M. Bower	J.S. Edmondson	J.S. Edmondson
Soo Locks Centennial					
A516	3	Chickering & W.K. Schrage	C.A. Brooks	R.J. Jones	R.J. Jones
Atoms for Peace					
A517	3	G.R. Fox; V.S. McCloskey•	R.M. Bower	Geo. L. Huber	Geo. L. Huber
Fort Ticondoroga					
A518	3	Enrico Arno	C.A. Brooks	R.K. Barrick	R.K. Barrick
Andrew W. Mellon					
A519	3	V.S. McCloskey	R.M. Bower	R.J. Jones	R.M. Bower
			1956		
Benjamin Franklin					
A520	3	C.R. Chickering	C.A. Brooks	J.S. Edmondson	J.S. Edmondson

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• Modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Booker T. Washington					
A521	3	C.R. Chickering	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
FIPEX Souvenir Sheet					
	3		M.D. Fenton	J.S. Edmondson	M.D. Fenton
A522		V.S. McCloskey*			
	8		R.M. Bower	J.S. Edmondson & R.M. Bower	R.M. Bower A. Peneau (scrolls)
FIPEX					
A523	3	W.K. Schrage	A.W. Dintaman	Geo. A. Payne	Geo. A. Payne
			Wildlife		
Turkey					
A524	3	Bob Hines V.S. McCloskey*	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Antelope					
A525	3	Bob Hines & V.S. McCloskey	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
Salmon					
A526	3	Bob Hines & V.S. McCloskey	M.D. Fenton	J.S. Edmondson	J.S. Edmondson
Pure Food and Drug Laws					
A527	3	R.L. Miller	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Wheatland					
A528	3	V.S. McCloskey*	R.M. Bower	J.S. Edmondson	J.S. Edmondson
Labor Day (AFL-CIO)					
A529	3	V.S. McCloskey	Bower & Brooks	J.S. Edmondson	J.S. Edmondson
Nassau Hall at Princeton					
A530	3	V.S. McCloskey	R.M. Bower	J.S. Edmondson	J.S. Edmondson
Devils Tower Monument					
A531	3	C.R. Chickering	A.W. Dintaman	R.J. Jones	R.J. Jones
Children of the World					
A532	3	Ronald Dias; V.S. McCloskey*	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
			1957		
Alexander Hamilton					
A533	3	W.K. Schrage	R.M. Bower	Geo. A. Payne	-
Polio					
A534	3	C.R. Chickering	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Coast and Geodetic Survey					
A535	3	H.B. MacEwen; V.S. McCloskey*	M.D. Fenton	H.F. Sharpless	H.F. Sharpless
Architects of America					
A536	3	R.J. Schultz; W.K. Schrage*	R.M. Bower	R.K. Barrick	R.K. Barrick
Steel Industry Centennial					
A537	3	A. Petrucelli; C.R. Chickering*	R.M. Bower	J.S. Edmondson	J.S. Edmondson
International Naval Review					
A538	3	R.A. Genders & A.C. Wieseman; W.K. Schrage*	R.M. Bower	R.J. Jones	R.J. Jones
Oklahoma Statehood					
A539	3	W.K. Schrage	M.D. Fenton	Geo. L. Huber	-
School Teachers					
A540	3	C.R. Chickering	Bower & Brooks	R.J. Jones	R.J. Jones

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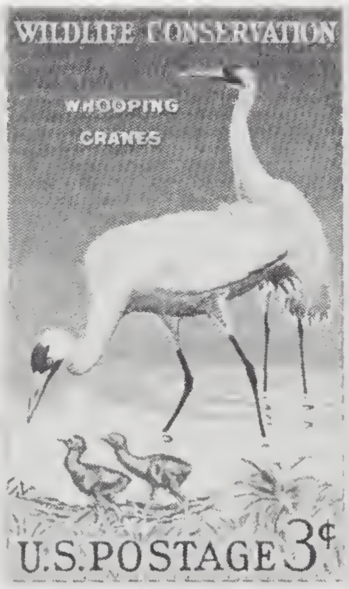
* Modeler. If only one name appears, the designer was also the modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
U.S. Flag					
A541	4	V.S. McCloskey	C.A. Brooks	J.S. Edmondson	J.S. Edmondson
Shipbuilding ("Virginia of Sagadahock")					
A542	3	Mrs. W. Zorach; A.M. Main, Jr.; G.F. Cary, II; E. Metzl; V.S. McCloskey*	R.M. Bower	J.S. Edmondson	J.S. Edmondson
Ramon Magsaysay — Champion of Liberty					
A543	8	A. Copeland, E. Metzl & W.H. Buckley	Bower (leaves); Brooks (torch & portrait)	Geo. L. Huber	J.S. Edmondson
Lafayette					
A544	3	E. Metzl; C.R. Chickering*	C.A. Brooks	R.J. Jones	R.J. Jones
Wildlife Conservation (Crane)					
A545	3	Bob Hines; C.R. Chickering*	R.M. Bower	Geo. A. Payne	-
Religious Freedom					
A546	3	G. Geissmann	R.M. Bower	J.S. Edmondson	-
			1958		
Gardening-Horticulture					
A547	3	Denver Gillen; C.R. Chickering*	C.A. Brooks	J.S. Edmondson	-
Universal & International Exhibition at Brussels					
A551	3	B. Thompson; V.S. McCloskey*	C.A. Brooks	R.K. Barrick	-
James Monroe					
A552	3	F.P. Conley; V.S. McCloskey*	C.A. Brooks	J.S. Edmondson	-
Minnesota Statehood					
A553	3	Homer Hill; C.R. Chickering*	M.D. Fenton	Geo. A. Payne	Geo. A. Payne
International Geophysical Year					
A554	3	E. Metzl; C.R. Chickering & W.K. Schrage*	R.M. Bower	R.J. Jones	-
Gunston Hall					
A555	3	Rene Clark; V.S. McCloskey*	M.D. Fenton	R.J. Jones	-



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* Modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Mackinac Bridge					
A556	3	A. Copeland; R.L. Miller*	R.M. Bower	R.K. Barrick	-
Simon Bolivar — Champion of Liberty					
A557	4	Copeland,	C.A. Brooks	J.S. Edmondson	-
A557	8	Buckley & Metzl	C.A. Brooks	J.S. Edmondson	-
Atlantic Cable Centennial					
A558	4	Geo. Giusti	-	-	-
Lincoln Sesquicentennial					
A559	1	E. Metzl; R.L. Miller*	R.M. Bower	G.L. Huber	-
A560	3	E. Metzl	A.W. Dintaman	H.F. Sharpless	-
A561	4	E. Metzl; C.R. Chickering*	C.A. Brooks	G.L. Huber	-
A562	4	E. Metzl; W.K. Schrage*	M.D. Fenton	R.K. Barrick	R.K. Barrick
Lajos Kossuth — Champion of Liberty					
A563	4	A. Copeland, W.H. Buckley & E. Metzl; W.K. Schrage*	R.M. Bower	J.S. Edmondson	H.F. Sharpless
A563	8	(as preceding)	Bower & Brooks	-	-
Freedom of the Press					
A564	4	Lester Beal & Charles Goslin	R.M. Bower	R.K. Barrick	-
Overland Mail					
A565	4	W.H. Buckley; C.R. Chickering*	C.A. Brooks	J.S. Edmondson	C.A. Brooks
Noah Webster					
A566	4	C.R. Chickering	A.W. Dintaman	Geo. L. Huber	Geo. L. Huber
Forest Conservation					
A567	4	R. Wendelin	C.A. Brooks	Geo. L. Huber	-
Fort Duquesne					
A568	4	W.H. Buckley & D. Gorsline; V.S. McCloskey*	C.A. Brooks	Geo. A. Payne	-
			1959		
Oregon Statehood					
A569	4	R. Hallock	C.A. Brooks	J.S. Edmondson	-
José de San Martin — Champion of Liberty					
A570	4	Copeland, W.H. Buckley & E. Metzl; W.K. Schrage*	M.D. Fenton	J.S. Edmondson	-
A570	8		(same as preceding)		
NATO					
A571	4	Stephen Dohanos; W.K. Schrage*	R.K. Barrick	R.K. Barrick	R.K. Barrick
Arctic Exploration					
A572	4	G. Samerjan; R.L. Miller*	C.A. Brooks	J.S. Edmondson	-
World Peace Through World Trade					
A573	8	Robert Baker; V.S. McCloskey*	M.D. Fenton	R.J. Jones	-
Silver Centennial					
A574	4	R.L. Miller & W.K. Schrage	C.A. Brooks	R.J. Jones	-

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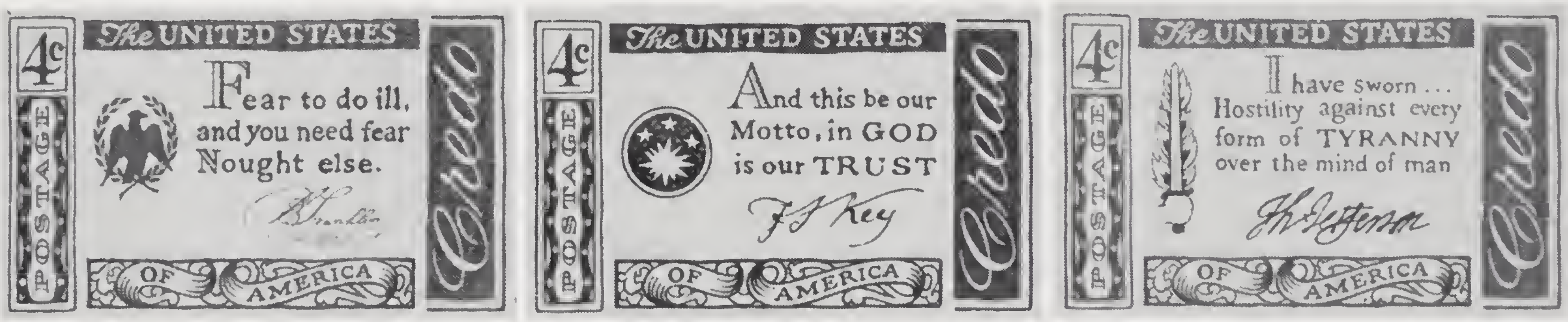
* Modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
St. Lawrence Seaway					
A575	4	A.L. Pollock, G. Trottier, W.H. Buckley, A.J. Copeland & E. Metzl; C.R. Chickering*	R.M. Bower	Geo. A. Payne	-
49-Star Flag					
A576	4	S. Dohanos; W.K. Schrage*	C.A. Brooks	R.K. Barrick	-
Soil Conservation					
A577	4	Walter Horten; W.K. Schrage*	R.M. Bower	Geo. L. Huber	-
Petroleum Industry					
A578	4	V.S. McCloskey*	A.W. Dintaman	H.F. Sharpless	-
Dental Health					
A579	4	C.A. Carter	M.D. Fenton	Geo. L. Huber	-
Ernest Reuter — Champion of Liberty					
A580	4	Copeland, Metzl, W.H. Buckley; C.R. Chickering*	R.M. Bower	H.F. Sharpless	-
A580	8		(same as preceding)		
Dr. Ephram McDowell					
A581	4	C.R. Chickering	C.A. Brooks	Geo. A. Payne	Geo. A. Payne

American Credo — Quotations


4c
POSTAGE
The UNITED STATES
Fear to do ill, and you need fear Nought else.
B. Franklin
OF AMERICA
Credo
4c
POSTAGE
The UNITED STATES
And this be our Motto, in GOD is our TRUST
F.S. Key
OF AMERICA
Credo
4c
POSTAGE
The UNITED STATES
I have sworn ... Hostility against every form of TYRANNY over the mind of man
Th. Jefferson
OF AMERICA
Credo

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
George Washington					
A582	4		R.J. Jones executed the entire design		
Benjamin Franklin					
A583	4		H.F. Sharpless	H.F. Sharpless	R.J. Jones
Thomas Jefferson					
A584	4		W.R. Burnell	W.R. Burnell	R.J. Jones
Francis S. Key		Frank Conley			
A585	4		Geo. L. Huber	Geo. L. Huber	R.J. Jones
Abraham Lincoln					
A586	4		Geo. L. Huber	Geo. L. Huber	R.J. Jones
Patrick Henry					
A587	4		K.C. Wiram	K.C. Wiram	R.J. Jones
			C.R. Chickering modeled Nos. A582-587.		

1960

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Boy Scout Jubilee					
A588	4	Norman Rockwell; V.S. McCloskey*	C.A. Brooks	Geo. L. Huber	-

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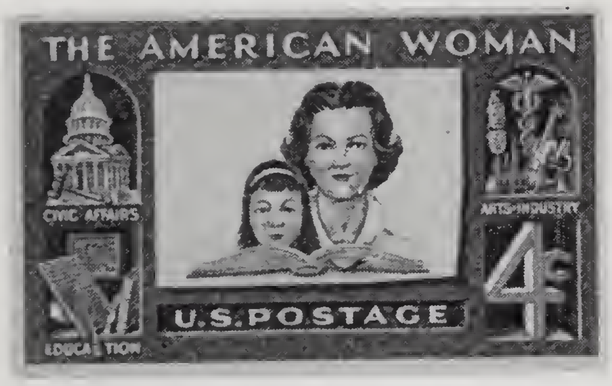
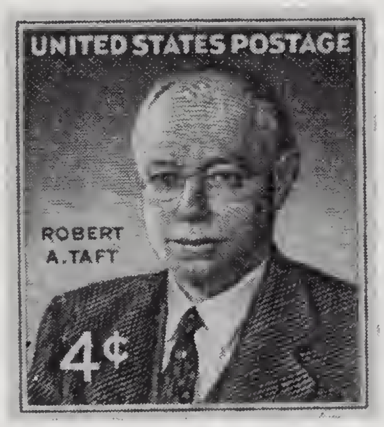
* Modeler. If only one name appears, the designer was also the modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Olympic Winter Games					
A589	4	E. Metzl; W.K. Schrage•	R.J. Jones	R.J. Jones	R.J. Jones
Thomas G. Masaryk — Champion of Liberty					
A590	4	A. Copeland, W.H. Buckley & E.Metzl; W.K. Schrage•	R.M. Bower	-	-
A590	8	(as preceding)	R.M. Bower	Geo. L. Payne	-
World Refugee Year					
A591	4	E. Metzl; V.S. McCloskey•	C.A. Brooks	Geo. A. Payne	-
Water Conservation					
A592	4	Elmo White; C.R. Chickering•	R.J. Jones	-	-
SEATO					
A593	4	John Maas; C.R. Chickering•	R.M. Bower	H.F. Sharpless	-

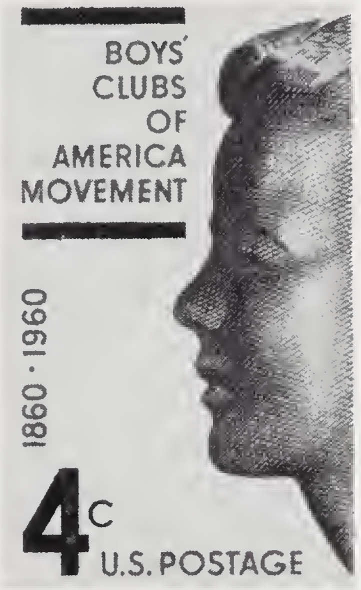


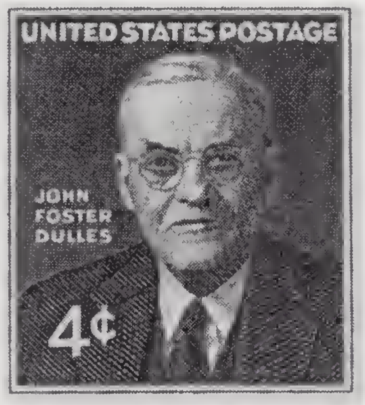


Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
American Woman					
A594	4	Robert Sivard; V.S. McCloskey•	C.A. Brooks	R.J. Jones	-
50-Star Flag					
A595	4	Stephan Dohanos	C.A. Brooks	R.J. Jones	-
Pony Express Centennial					
A596	4	H. von Schmidt	R.M. Bower	H.F. Sharpless	-
Employ the Handicapped					
A597	4	Carl Bobertz	A.M. Dintaman	Kenneth C. Wiram	-
Fifth World Forestry Congress					
A598	4	C.R. Chickering•	R.M. Bower	Geo. A. Payne	-
Mexican Independence — 150th Anniversary					
A599	4	Leon Helguera; C.R. Chickering•	C.A. Brooks	H.F. Sharpless	-
United States-Japan Treaty — Centennial					
A600	4	Gyo Fujikawa	M.D. Fenton	R.J. Jones	-
Ignacy Jan Paderewski — Champion of Liberty					
A601	4	A. Copeland, E.Metzl, W.H. Buckley; C.R. Chickering•, W.K. Schrage•	R.M. Bower	H.F. Sharpless	-
A601	8		(same as preceding)		
Robert A. Taft					
A602	4	W.K. Schrage•	C.A. Brooks	R.K. Barrick	C.A. Brooks

• Modeler. If only one name appears, the designer was also the modeler.

Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Wheels of Freedom					
A603	4	A.J. Copeland; C.R. Chickering & V.S. McCloskey*	M.D. Fenton	H.F. Sharpless	-


BOYS' CLUBS OF AMERICA MOVEMENT
1860 · 1960
4c U.S. POSTAGE



Scott No.	$/¢	Designer	Vignette Engraver	Letter Engraver	Frame Engraver
Boys' Clubs of America					
A604	4	C.T. Coiner; C.R. Chickering*	M.D. Fenton	R.J. Jones	-
First Automated Post Office					
A605	4	A.J. Copeland; V.S. McCloskey*	C.A. Brooks	R.J. Jones	-
Gustaf Mannerheim — Champion of Liberty					
A606	4	Chickering* & W.K. Schrage*	R.M. Bower	Geo. A. Payne	A.W. Dintaman
A606	8	(same as preceding)		R.M. Bower	-
Camp Fire Girls					
A607	4	H. Edward Oliver	R.M. Bower	Geo. L. Huber	-
Giuseppe Garibaldi — Champion of Liberty					
A608	4	W.K. Schrage*	M.D. Fenton	Geo. A. Payne	A.W. Dintaman
A608	8		(same as preceding)		
Walter F. George					
A609	4	W.K. Schrage*	C.A. Brooks	R.J. Jones	R.J. Jones
Andrew Carnegie					
A610	4	C.R. Chickering	C.A. Brooks	W.R. Burnell	-
John Foster Dulles					
A611	4	W.K. Schrage*	R.M. Bower	R.J. Jones	-
Echo 1-Communications for Peace					
A612	4	E. Metzl	C.A. Brooks	H.F. Sharpless	-

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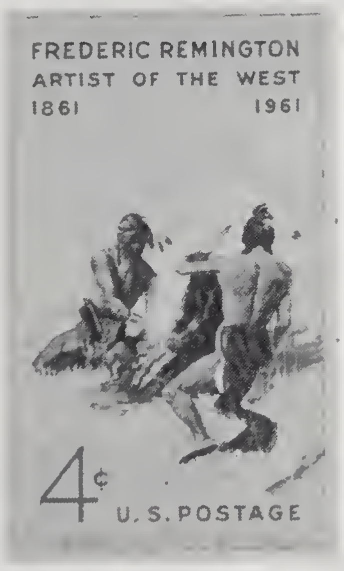
* Modeler. If only one name appears, the designer was also the modeler.

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Mahatma Gandhi				
A613	4	W.H. Buckley, A. Copeland & E. Metzl; W.K. Schrage*	C. Brooks & R.M. Bower	Robert J. Jones
A613	8	(same as above)		
Range Conservation				
A614	4	Rudolph Wendelin; C.R. Chickering*	M.D. Fenton	Geo. L. Huber
Horace Greeley				
A615	4	C.R. Chickering	R.M. Bower	Geo. A. Payne
Civil War Centennial-Ft. Sumter				
A616	4	C.R. Chickering	A.W. Dintaman	Geo. A. Payne
Civil War Centennial-Shiloh				
A617	4	Noel Sickles	M.D. Fenton	H.F. Sharpless
Civil War-Gettysburg				
A618	5	Roy Gjertson; R.J. Jones*	A.W. Dintaman	Geo. A. Payne
Civil War-Wilderness				
A619	5	B.H. Christenson	A.W. Dintaman	Geo. A. Payne
Civil War-Appomattox				
A620	5	Leonard Fellman; R.J. Jones*	A.W. Dintaman	Geo. A. Payne
Kansas Statehood				
A621	4	C.R. Chickering; W.K. Schrage*	R.M. Bower	R.J. Jones
George W. Norris				
A622	4	C.R. Chickering	M.D. Fenton	R.J. Jones
Naval Aviation				
A623	4	J. Maas; C.R. Chickering* & R.J. Jones*	R.M. Bower	Geo. A. Payne
Workmen's Compensation				
A624	4	Norman Todhunter & Jerry Mullen	C.A. Brooks	R.J. Jones



Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Frederick Remington				
A625	4	C.R. Chickering	R.M. Bower	R.J. Jones
Sun Yat-sen				
A626	4	Chickering; Schrage*	M.D. Fenton	H.F. Sharpless
Naismith-Basketball				
A627	4	C.R. Chickering	M.D. Fenton	H.F. Sharpless
Nursing				
A628	4	Alfred C. Parker; V.S. McCloskey*	R.M. Bower	Geo. A. Payne

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
1962				
New Mexico Statehood				
A629	4	R.J. Jones	R.M. Bower	H.F. Sharpless
Arizona Statehood				
A630	4	J.M. Chemi & J.F. Ihms; C.R. Chickering*	A.W. Dintaman	Geo. A. Payne
Project Mercury				
A631	4	C.R. Chickering	R.M. Bower	H.F. Sharpless
Malaria Eradication				
A632	4	C.R. Chickering	R.M. Bower	Geo. A. Payne
Charles Evans Hughes				
A633	4	C.R. Chickering	R.M. Bower	H.F. Sharpless
Seattle World's Fair				
A634	4	J. Maas; W.K. Schrage*	C.A. Brooks	Geo. A. Payne
Louisiana Statehood				
A635	4	Norman Todhunter	A.W. Dintaman	W.R. Burnell
Homestead Act				
A636	4	C.R. Chickering	M.D. Fenton	Kenneth C. Wiram
Girl Scout Jubilee				
A637	4	Ward Brackett	M.D. Fenton	W.R. Burnell
Senator Brian McMahon				
A638	4	V.S. McCloskey	R.M. Bower	H.F. Sharpless
Apprenticeship				
A639	4	Robert Geissmann; C.R. Chickering*	R.M. Bower	Geo. A. Payne
Sam Rayburn				
A640	4	Robert L. Miller	C.A. Brooks	W.R. Burnell
Dag Hammarskjold				
A641	4	Herbert M. Sanborn; V.S. McCloskey*	C.A. Brooks	Kenneth C. Wiram
Christmas				
A642	4	J. Crawford; W.K. Schrage*	R.M. Bower	Geo. A. Payne
Higher Education				
A643	4	Henry K. Bencsath; C.R. Chickering*	M.D. Fenton	H.F. Sharpless
Winslow Homer				
A644	4	V.S. McCloskey	C.A. Brooks	H.F. Sharpless
1963-1966 Regular Issues				
Flag over White House				
A645	5	R.J. Jones	R.M. Bower	W.R. Burnell
Andrew Jackson				
A646	1	W.K. Schrage	R.M. Bower	Kenneth C. Wiram
George Washington				
A647	5	W.K. Schrage	C.A. Brooks	Geo. A. Payne
1963				
Carolina Charter				
A662	5	Robert L. Miller	R.M. Bower	Kenneth C. Wiram
Food for Peace-Freedom from Hunger				
A663	5	Stevan Dohanos; V.S. McCloskey*	A.W. Dintaman	Geo. A. Payne
West Virginia Statehood				
A664	5	Dr. D. Mutchler; W.K. Schrage*	C.A. Brooks	Kenneth C. Wiram
Emancipation Proclamation				
A665	5	G. Olden; McCloskey*	-	H.F. Sharpless

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Alliance for Progress				
A666	5	W.K. Schrage	M.D. Fenton	Geo. A. Payne
Cordell Hull				
A667	5	R.J. Jones	C.A. Brooks	H.F. Sharpless
Eleanor Roosevelt				
A668	5	Robert L. Miller	C.A. Brooks	Geo. A. Payne
Science				
A669	5	Antonio Frasconi	A.W. Dintaman	Kenneth C. Wiram
City Mail Delivery				
A670	5	Norman Rockwell; R.L. Miller*	C.A. Brooks	H.F. Sharpless
Red Cross Centenary				
A671	5	V.S. McCloskey	R.M. Bower	Kenneth C. Wiram
Christmas				
A672	5	Lily Spandorf & Norman Todhunter; V.S. McCloskey*	R.M. Bower	H.F. Sharpless
John James Audubon				
A673	5	Robert L. Miller	M.D. Fenton	H.F. Sharpless

1964

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Sam Houston				
A674	5	Tom Lea	A.W. Dintaman	Geo. A. Payne
Charles M. Russell				
A675	5	W.K. Schrage	C.A. Brooks	Geo. A. Payne
New York World's Fair				
A676	5	R.J. Jones	A.W. Dintaman	H.F. Sharpless
John Muir				
A677	5	Rudolph Wendelin	M.D. Fenton	Kenneth C. Wiram
Kennedy Memorial				
A678	5	R. Loewy & W. Snaith, Inc.; V.S. McCloskey*	M.D. Fenton	H.F. Sharpless
New Jersey Tercentenary				
A679	5	D. Allen; McCloskey*	A.W. Dintaman	Kenneth C. Wiram
Nevada Statehood				
A680	5	W.K. Schrage; R.J. Jones*	M.D. Fenton	Geo. A. Payne
Register and Vote				
A681	5	V.S. McCloskey	R.M. Bower	H.F. Sharpless

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
William Shakespeare				
A682	5	Douglas Gorsline	C.A. Brooks	W.R. Burnell
Doctors Mayo Clinic				
A683	5	R.J. Jones; V.S. McCloskey*	M.D. Fenton	Geo. A. Payne
American Music				
A684	5	Bradbury Thompson	C.A. Brooks	Kenneth C. Wiram
Homemakers				
A685	5	Norman Todhunter	R.M. Bower	H.F. Sharpless
Christmas				
A686	5	Thomas F. Naegele	A.W. Dintaman	H.F. Sharpless
A687	5	Thomas F. Naegele	A.W. Dintaman	H.F. Sharpless
A688	5	Thomas F. Naegele	M.D. Fenton	H.F. Sharpless
A689	5	Thomas F. Naegele	R.M. Bower	H.F. Sharpless
		(R.J. Jones modeled Nos. A686-689.)		
Verrazano-Narrows Bridge				
A690	5	R.L. Miller	C.A. Brooks	H.F. Sharpless
Fine Arts				
A691	5	Stuart Davis	R.M. Bower	H.F. Sharpless
Amateur Radio				
A692	5	Emil J. Willett	C.A. Brooks	Geo. A. Payne

1965

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Battle of New Orleans				
A693	5	R.J. Jones	C.A. Brooks	Sharpless & Wiram
Physical Fitness				
A694	5	Norman Todhunter; R.J. Jones & V.S. McCloskey*	A.W. Dintaman	Geo. A. Payne
Crusade Against Cancer				
A695	5	Stevan Dohanos; Howard Mildner*	J.S. Creamer, Jr.	Kenneth C. Wiram
Winston Churchill Memorial				
A696	5	R. Hurd & S. Marsh	C.A. Brooks	H.F. Sharpless
Magna Carta				
A697	5	Brook Temple	A.W. Dintaman	Geo. A. Payne
International Cooperation Year				
A698	5	H.M. Sanborn & O.S. Mathiesen; V.S. McCloskey*	C.A. Brooks	H.F. Sharpless
Salvation Army				
A699	5	Sam Marsh; R.J. Jones*	Geo. A. Payne	(gravure)
Dante Alighieri				
A700	5	Douglas Gorsline	A.W. Dintaman	W.R. Burnell
Herbert Hoover				
A701	5	Norman Todhunter	C.A. Brooks	Geo. A. Payne
Robert Fulton				
A702	5	J. Maas; R.J. Jones*	C.A. Brooks	Geo. A. Payne
Settlement of Florida				
A703	5	Brook Temple	A.W. Dintaman	Geo. A. Payne
Traffic Safety				
A704	5	Richard Hurd; R.L. Miller*	J.S. Creamer, Jr.	Burnell & Wiram
John Singleton Copley				
A705	5	J. Carter Brown; V.S. McCloskey*	C.A. Brooks	Kenneth C. Wiram
International Telecommunication Union				
A706	5	Thomas F. Naegele	A.W. Dintaman	H.F. Sharpless

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Adlai E. Stevenson				
A707	5	George Samerjan; R.L. Miller*	C.A. Brooks	Geo. A. Payne
Christmas				
A708	5	R.J. Jones; H.C. Mildner*	C.A. Brooks	H.F. Sharpless

1965-1978
Prominent Americans

Thomas Jefferson				
A710	1	R. Geissmann	Edward R. Felver	Kenneth C. Wiram
Albert Gallatin				
A711	1¼	Robert Gallatin	Edward R. Felver	Robert G. Culin
Frank Lloyd Wright				
A712	2	P. Amarentides; H.C. Mildner*	A.W. Dintaman	Geo. A. Payne
Francis Parkman				
A713	3	Bill Hyde	Edward R. Felver	Robert G. Culin
Abraham Lincoln				
A714	4	Bill Hyde	J.S. Creamer, Jr.	Geo. A. Payne
George Washington				
A715	5	Bill Hyde	C.A. Brooks	W.R. Burnell
A715a	5	Stevan Dohanos	J.S. Creamer, Jr.	W.R. Burnell
Franklin D. Roosevelt				
A716	6	R.J. Jones; H.C. Mildner*	J.S. Creamer, Jr.	H.F. Sharpless
Albert Einstein				
A717	8	Frank Sebastiano	A.W. Dintaman	Geo. A. Payne
Andrew Jackson				
A718	10	Lester Beal	A.W. Dintaman	H.F. Sharpless
Henry Ford				
A718a	12	Norman Todhunter	Edward R. Felver	W.R. Burnell
John F. Kennedy				
A719	13	Stevan Dohanos; R.J. Jones*	A.W. Dintaman	H.F. Sharpless
Oliver Wendell Holmes				
A720	15	Richard Hurd	J.S. Creamer, Jr.	H.F. Sharpless
George Catlett Marshall				
A721	20	Robert Geissmann; H.C. Mildner*	A.W. Dintaman	Kenneth C. Wiram
Frederick Douglas				
A722	25	W. DuBois Richards	A.W. Dintaman	Kenneth C. Wiram
John Dewey				
A723	30	Richard Clark; R.J. Jones*	Edward P. Archer	W.R. Burnell
Thomas Paine				
A724	40	Robert Geissmann; R.J. Jones*	A.W. Dintaman	Robert G. Culin
Lucy Stone				
A725	50	Mark English; L.E. Buckley*	Edward R. Felver	Robert G. Culin
Eugene O'Neill				
A726	$1	Norman Todhunter; R.J. Jones*	A.W. Dintaman	Robert G. Culin
John Bassett				
A727	$5	Thomas Laufer	A.W. Dintaman	W.R. Burnell

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
1966				
Migratory Bird Treaty				
A728	5	Burt Pringle; R.L. Miller*	J.S. Creamer, Jr.	H.F. Sharpless
Humane Treatment of Animals				
A729	5	Norman Todhunter; R.J. Jones*	C.A. Brooks	H.F. Sharpless
Indiana Statehood				
A730	5	Paul Wehr; V.S. McCloskey*	J.S. Creamer, Jr.	Kenneth C. Wiram
American Circus				
A731	5	Edward Klauck	C.A. Brooks	Kenneth C. Wiram
SIPEX				
A732	5	Thomas F. Naegele; R.J. Jones*	H.F. Sharpless	(offset/intaglio)
SIPEX-Souvenir Sheet				
A733	5	Brook Temple; R.J. Jones*	H.F. Sharpless	Felver & Wiram
Bill of Rights				
A734	5	Herbert L. Block; R.J. Jones*	J.S. Creamer, Jr.	Kenneth C. Wiram
Polish Millennium				
A735	5	E.L. Lewandowski	J.S. Creamer, Jr.	Robert G. Culin
National Park Service				
A736	5	Thomas H. Geissmann; H.C. Mildner*	J.S. Creamer, Jr.	Robert G. Culin
Marine Corps Reserve				
A737	5	Stella Grafakos	C.A. Brooks	Kenneth C. Wiram
General Federation of Women's Clubs				
A738	5	Charles H. Carter	J.S. Creamer, Jr.	W.R. Burnell
American Folklore — Johnny Appleseed				
A739	5	Robert Bode	A.W. Dintaman	H.F. Sharpless
Beautification of America				
A740	5	Gyo Fujikawa	C.A. Brooks	H.F. Sharpless
Great River Road				
A741	5	H. Bayer; R.J. Jones*	J.S. Creamer, Jr.	Kenneth C. Wiram
Savings Bonds				
A742	5	Stevan Dohanos	Edward R. Felver	H.F. Sharpless
Christmas				
A743	5	Howard C. Mildner	Edward R. Felver	Kenneth C. Wiram
Mary Cassatt				
A744	5	R.J. Jones	C.A. Brooks	H.F. Sharpless
1967				
National Grange				
A745	5	L. Pavao; R.J. Jones*	Edward R. Felver	H.F. Sharpless
Canada Centenary				
A746	5	Ivan Chermayeff; R.J. Jones*	Edward R. Felver	Robert G. Culin
Erie Canal				
A747	5	G. Samerjan; R.J. Jones*	(offset/intaglio)	H.F. Sharpless
"Peace" — Lions International				
A748	5	B. Thompson; R.J. Jones*	J.S. Creamer, Jr.	W.R. Burnell
Henry David Thoreau				
A749	5	Leonard Baskin; R.J. Jones*	J.S. Creamer, Jr.	Robert G. Culin
Nebraska Statehood				
A750	5	Julian K. Billings; R.J. Jones*	J.S. Creamer, Jr.	Robert G. Culin
Voice of America				
A751	5	G. Olden; R.J. Jones*	Edward R. Felver	Kenneth C. Wiram

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
American Folklore — Davy Crockett				
A752	5	Robert Bode	Edward R. Felver	H.F. Sharpless
Space Accomplishments				
A753	5	P. Calle; R.J. Jones*	J.S. Creamer,Jr.	Robert G. Culin
A754	5		(same as preceding)	
Urban Planning				
A755	5	F. Ferguson; L.E. Buckley*	J.S. Creamer, Jr.	H.F. Sharpless
Finnish Independence				
A756	5	B. Thompson; L.E. Buckley*	Edward R. Felver	H.F. Sharpless
Thomas Eakin				
A757	5	Printed by Photogravure & Color Co. Moonachie, NJ.		
Christmas				
A758	5	Howard C. Mildner	Edward R. Felver	H.F. Sharpless
Mississippi Statehood				
A759	5	Andrew Bucci; H.C. Mildner*	J.S. Creamer, Jr.	Kenneth C. Wiram
1968				
American Flag				
A760	6	Stevan Dohanos	Edward P. Archer	Kenneth C. Wiram
Illinois Statehood				
A761	6	George Barford	J.S. Creamer, Jr.	H.F. Sharpless
HemisFair '68				
A762	6	Louis Macouillard; R.J. Jones*	Edward R. Felver	H.F. Sharpless
Airlift				
A763	$1	S. Dohanos; H.C. Mildner*	Edward P. Archer	W.R. Burnell
Support Our Youth				
A764	6	Edward Vebell; L.E. Buckley & R.J. Jones*	Edward P. Archer	Robert G. Culin
Law and Order				
A765	6	Ward Brackett; R.J. Jones*	J.S. Creamer, Jr.	Kenneth C. Wiram
Register and Vote				
A766	6	M. Halberstadt; R.J. Jones*	A.W. Dintaman	Robert G. Culin
Historic Flag Series				
Ft. Moultrie				
A767	6	L.C. Buckley, R.J. Jones & H.C. Mildner	Robert G. Culin	H.F. Sharpless
Ft. McHenry				
A768	6		W.R. Burnell	H.F. Sharpless
Cruisers				
A769	6		Kenneth C. Wiram	H.F. Sharpless
Bennington				
A770	6		Edward P. Archer	H.F. Sharpless
Rhode Island				
A771	6		Edward P. Archer	H.F. Sharpless
Stars and Stripes				
A772	6		Edward R. Felver	H.F. Sharpless
Bunker Hill				
A773	6		H.F. Sharpless	H.F. Sharpless
Grand Union				
A774	6		J.S. Creamer, Jr.	H.F. Sharpless
Phila. Light Horse				
A775	6		J.S. Creamer, Jr.	H.F. Sharpless
First Navy Jack				
A776	6		Edward P. Archer	H.F. Sharpless

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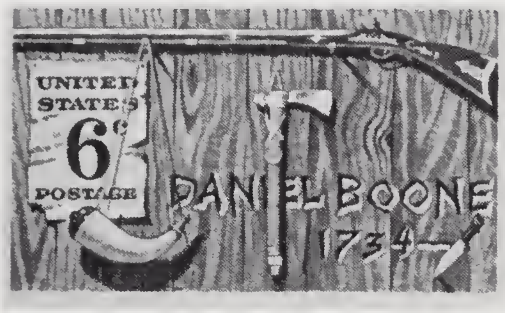
Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Walt Disney				
A777	6	C.R. Moore; P.E. Wenzel*	(gravure by Archgravure)	-
Father Marquette				
A778	6	Stanley W. Galli; R.J. Jones*	Edward P. Archer	W.R. Burnell



Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
American Folklore — Daniel Boone				
A779	6	Louis Macouillard	J.S. Creamer, Jr.	Kenneth C. Wiram
Arkansas River Navigation				
A780	6	D. Ellis; L.E. Buckley*	Edward P. Archer	Robert G. Culin
Leif Erikson				
A781	6	Kurt Weiner; R.J. Jones*	Edward P. Archer	Robert G. Culin
Cherokee Strip				
A782	6	Norman Todhunter	J.S. Creamer, Jr.	Kenneth C. Wiram
John Trumbull				
A783	6	Buckley & Mildner	J.S. Creamer, Jr.	Kenneth C. Wiram
Waterfowl Conservation				
A784	6	S.W. Galli; L.E. Buckley*	J.S. Creamer, Jr.	Robert G. Culin
Christmas				
A785	6	R.J. Jones; L.E. Buckley*	Edward R. Felver	H.F. Sharpless
American Indian — Chief Joseph				
A786	6	R.J. Jones & C. Pontes	Edward R. Felver	W.R. Burnell

1969

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Beautification of America				
A787	6	L.E. Buckley*, R.J. Jones* & H.C. Mildner*	Edward R. Felver	H.F. Sharpless
A788	6		A.W. Dintaman	Albert Saavedra
A789	6		J.S. Creamer, Jr.	W.R. Burnell
A790	6		Edward P. Archer	Kenneth C. Wiram

(Nos. A787 *Cities*, A788 *Parks*, A789, *Highways*, A790 *Streets*.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
American Legion				
A791	6	R. Hallock; Buckley*	J.S. Creamer, Jr.	Kenneth C. Wiram
American Folklore — Grandma Moses				
A792	6	R.J. Jones	J.S. Creamer, Jr.	Kenneth C. Wiram
Apollo 8				
A793	6	L.E. Buckley	Edward R. Felver	Robert G. Culin
W.C. Handy				
A794	6	Bernice Kochan	Edward P. Archer	Kenneth C. Wiram
California Settlement				
A795	6	L.E. Buckley; H.C. Mildner*	J.S. Creamer, Jr.	Robert G. Culin
John Wesley Powell				
A796	6	Rudolph Wendelin; H.C. Mildner*	J.S. Creamer, Jr.	H.F. Sharpless
Alabama Statehood				
A797	6	B. Kochan; H.C. Mildner*	Edward P. Archer	Robert G. Culin

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
International Botanical Congress				
A798	6	Stanley Galli	Edward P. Archer Edward R. Felver A.W. Dintaman	Robert G. Culin H.F. Sharpless
A799	6	Stanley Galli		
A800	6	Stanley Galli		
A801	6	Stanley Galli		

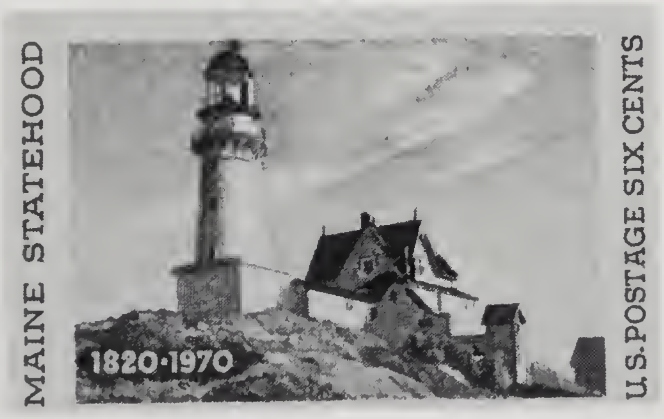
(Nos. A798-801 were modeled by H.C. Mildner.)

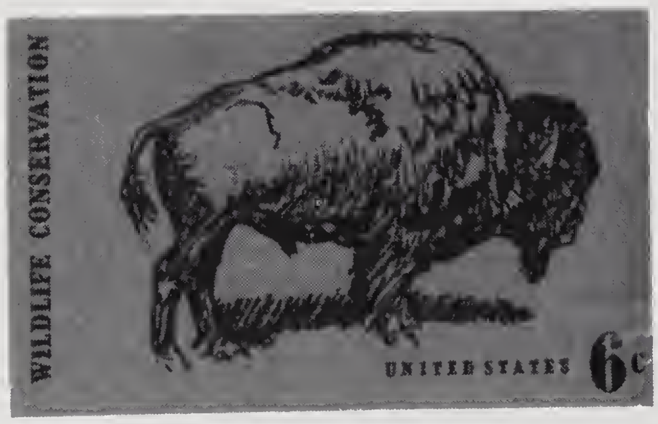
Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Dartmouth College				
A802	6	J.R. Scotford, Jr.	Edward P. Archer	Kenneth C. Wiram
Professional Baseball				
A803	6	A. Ross* R.J. Jones*	J.S. Creamer, Jr.	Kenneth C. Wiram
Intercollegiate Football				
A804	6	Robert Peak; H.C. Mildner*	Edward P. Archer	Albert Saavedra
Dwight D. Eisenhower				
A805	6	R.J. Jones	Edward R. Felver	H.F. Sharpless
Christmas				
A806	6	S. Dohanos; Buckley*	Edward P. Archer	Robert G. Culin
Hope for Crippled				
A807	6	M. English; L.E. Buckley*	Edward P. Archer	Kenneth C. Wiram
William M. Harnett				
A808	6	R.J. Jones	Edward R. Felver	Albert Saavedra

1970

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Natural History				
A809	6	Walter Richards	Edward R. Felver	Albert Saavedra
A810	6	Dean Ellis	A.W. Dintaman	Albert Saavedra
A811	6	Paul Rabut	J.S. Creamer, Jr.	Albert Saavedra
A812	6	Rudolph Zollinger	Edward R. Felver	Albert Saavedra

(Nos. A809 *Eagle*, A810 *Elephants*, A811 *Canoe*, A812 *Reptiles*; all were modeled by R.J. Jones.)





Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Maine Statehood				
A813	6	S. Dohanos; Buckley*	Edward R. Felver	H.F. Sharpless
Wildlife Conservation — Buffalo				
A814	6	R. Lougheed; R.J. Jones*	Edward P. Archer	Robert G. Culin

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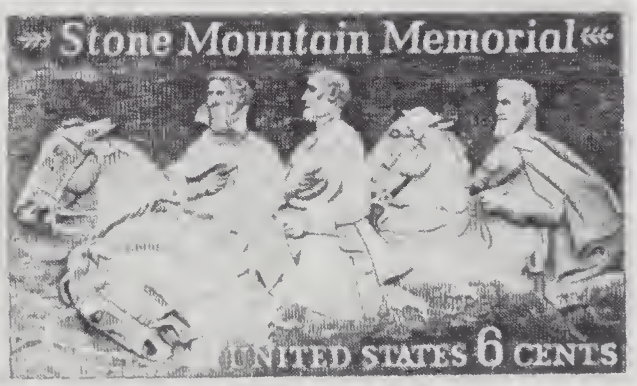
1970-1974 Regular Issues

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Dwight D. Eisenhower				
A815	6	R. Geissmann; L.E. Buckley*	A.W. Dintaman	Kenneth C. Wiram
A815	8	(same as above)	Edward P. Archer	Robert G. Culin
Benjamin Franklin				
A816	7	Bill Hyde	T.F. Kronen	H. Kasley
U.S. Postal Emblem				
A817	8	Loewy/Snaith, Inc.; R. Sharpe*	(gravure)	-
Fiorello H. LaGuardia				
A817a	14	Robert Geissmann	A.W. Dintaman	Robert G. Culin
Ernie Pyle				
A818	16	Robert Geissmann	Edward P. Archer	H.F. Sharpless
Dr. Elizabeth Blackwell				
A818a	18	R. Geissmann; V.J. Ruther*	Edward P. Archer	Albert Saavedra
Amadeo P. Giannini				
A818b	21	Geissmann; L.E. Buckley*	A.W. Dintaman	H.F. Sharpless
Edgar Lee Masters				
A819	6	Fred Otnes	Edward P. Archer	Albert Saavedra
Woman Suffrage				
A820	6	Ward Brackett	J.S. Creamer, Jr.	Robert G. Culin



Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
South Carolina — Tercentenary				
A821	6	G. Samerjan; R.J. Jones*	Edward P. Archer	H.F. Sharpless
Stone Mountain Memorial				
A822	6	Robert Hallock	Edward R. Felver	H.F. Sharpless
Fort Snelling				
A823	6	L. Fellman, L. Kouba, F. Meisch & D.K. Stone	Edward P. Archer	Kenneth C. Wiram
Anti-Pollution				
A824	6	A. Copeland & W.D. Richards	(gravure)	-
A825	6			
A826	6			
A827	6			

(Nos. 824 *Soil*, A825 *Cities*, A826 *Water*, A827 *Water*.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Christmas — Nativity				
A828	6	Howard C. Mildner	(gravure)	-
Christmas — Toys				
A829	6	S. Dohanos	(gravure)	-
A830	6			
A831	6			
A832	6			

(Nos. 829 *Locomotive*, A830 *Horse*, A831 *Tricycle*, A832 *Carriage*.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
United Nations				
A833	6	A. Copeland; L.E. Buckley*	Albert Saavedra	Albert Saavedra
Landing of the Pilgrims				
A834	6	Mark English	J.S. Creamer, Jr.	Kenneth C. Wiram
Disabled Veterans and POW				
A835	6	S. Dohanos; Buckley*	A.W. Dintaman	Robert G. Culin
A836	6	(same as above)	Robert G. Culin	Robert G. Culin

1971

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
American Wool Industry				
A837	6	Dean Ellis	Edward R. Felver	H.F. Sharpless
General Douglas MacArthur				
A838	6	Paul Calle	A.W. Dintaman	Kenneth C. Wiram
Blood Donors				
A839	6	H. Munce; L.E. Buckley*	Edward P. Archer	Robert G. Culin
Missouri Sesquicentennial				
A840	8	Bradbury Thompson	(gravure)	-
Wildlife Conservation				
A841	8	S. Galli; L.E. Buckley & H. Mildner*	Edward R. Felver	-
A842	8		J.S. Creamer, Jr.	Albert Saavedra
A843	8		Edward P. Archer	-
A844	8		Edward P. Archer	-

(A841 *Trout*, A842 *Alligator*, A843 *Bears*, A844 *Condor*, A841 Trout.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Antarctic Treaty				
A845	8	H. Koslow; R. Sharpe*	Edward P. Archer	H.F. Sharpless
American Revolution Bicentennial				
A846	8	Chermayeff & Geissmann; Ronald Sharpe*	H.F. Sharpless	H.F. Sharpless
John Sloan				
A847	8	B. Thompson; H. Mildner*	J.S. Creamer, Jr.	Robert G. Culin
Space Achievement Decade				
A848	8	Robert McCall	J.S. Creamer, Jr.	Robert G. Culin
A849	8	Robert McCall	J.S. McCall	Robert G. Culin

(Nos 848 & 849 were modeled by L.C. Buckley.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Emily Dickinson				
A850	8	B. Fuchs; L.E. Buckley*	A.W. Dintaman	Albert Saavedra
San Juan				
A851	8	Walter Brooks	J.S. Creamer, Jr.	Albert Saavedra
Prevent Drug Abuse				
A852	8	Miggs Burroughs & K.G. Perine	(gravure)	-
CARE				
A853	8	Soren Noring	(gravure)	-
Historic Preservation				
A854	8	M. Brindle; H. Mildner*	A.W. Dintaman	Robert G. Culin
A855	8		Edward P. Archer	
A856	8		Edward P. Archer	
A857	8		J.S. Creamer, Jr.	

(Nos. A854 *House*, A855 *Whaler*, A856 *Cable Car*, A857 *Mission*.)

At times the designer acted as modeler (*) or typographer (**), or both. The designer, modeler and typographer, in that order, are separated by (;).

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Christmas — Nativity				
A858	8	B.Thompson; R.J. Jones*	(gravure)	-
Christmas — Partridge				
A859	8	J. Wyeth; L.E. Buckley*	(gravure)	-

1972

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Sidney Lanier				
A860	8	W.A. Smith	Edward P. Archer	Kenneth C. Wiram
Peace Corps				
A861	8	Bradbury Thompson	(gravure)	-
National Parks Centennial				
A862	2	W.D. Richards	J.S. Creamer, Jr.	H.F. Sharpless
A863	2			
A864	2			
A865	2			
		(Nos. A862 *Ship*, A863 *Cape Hatteras*, A864 *Driftwood*, A865 *Gulls & Dune.*)		
Wolf Trap Farm				
A866	6	H. Koslow; Buckley*	A.W. Dintaman	Robert G. Culin
Old Faithful				
A867	8	Robert Handville; Thomas F. Kronen*	Edward P. Archer	Albert Saavedra
Mt. McKinley				
A868	15	James Barkley	J.S. Creamer, Jr.	H.F. Sharpless
Family Planning				
A869	8	Charles Reid	J.S. Creamer, Jr.	Kenneth C. Wiram
American Bicentennial				
A870	8	Leon E. Fisher	Edward P. Archer	Albert Saavedra
A871	8			
A872	8			
A873	8			
		(Nos. A870 *Glassmaker*, A871 *Silversmith*, A872 *Wigmaker*, A873 *Hatter.*)		
Olympic Games				
A874	6	Lance Wyman	(gravure)	-
A875	8			
A876	15			
		(Nos. A874 *Cycling*, A875 *Sledding*, A876 *Running.*)		
Parent Teacher Association				
A877	8	A.S. Congdon, III	(gravure)	-
Wildlife Conservation				
A878	8	Stanley Galli; L.E. Buckley & H. Mildner*	Edward P. Archer	Robert G. Culin
A879	8		J.S. Creamer, Jr.	Robert G. Culin
A880	8		A.W. Dintaman	Robert G. Culin
A881	8		A.W. Dintaman	Robert G. Culin
		(Nos. A878 *Seals*, A879 *Cardinal*, A880 *Pelican*, A881 *Sheep.*)		
Mail Order				
A882	8	R. Lambdin; L.E. Buckley*	(gravure)	-
Osteopathic Medicine				
A883	8	V. Jack Ruther	(gravure)	-
American Folklore — Tom Sawyer				
A884	8	B. Thompson; T.F. Kronen*	J.S. Creamer, Jr.	Robert G. Culin
Christmas — Angels				
A885	8	B. Thompson; H.C. Mildner*	(gravure)	-
Christmas — Santa Claus				
A886	8	S. Dohanos; L.E. Buckley*	(gravure)	-

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Pharmacy				
A887	8	Ken Davies; T.F. Kronen*	Edward P. Archer	Kenneth C. Wiram
Stamp Collecting				
A888	8	Frank E. Livia	Edward P. Archer	Robert G. Culin

1973

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Love				
A889	8	Robert Indiana	(gravure)	-
American Bicentennial				
A890	8	W.A. Smith	J.S. Creamer, Jr.	Albert Saavedra
A891	8		Edward P. Archer	J.L. Goodbody
A892	8		J.S. Creamer, Jr.	J.L. Goodbody
A893	8		Edward P. Archer	J.L. Goodbody

(Nos. A890 *Pamphleteer*, A981 *Broadside*, A892 *Postrider*, A893 *Drummer*. V. Jack Ruther modeled A890, A892 & A893.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Boston Tea Party				
A894	8	W.A. Smith; L.E. Buckley*	A.W. Dintaman	Albert Saavedra
A895	8			
A896	8			
A897	8			

(Nos. 894 *Merchantmen*, A895 *3-Master*, A896 *Ship's Hull*, A897 *Boat & Dock*.)

American Arts

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
George Gershwin				
A898	8	Mark English; L.E. Buckley*	(gravure)	-
Robinson Jeffers				
A899	8	Mark English; F.J. Waslick*	(gravure)	-
Henry O. Tanner				
A900	8	M. English; E. Porter*	(gravure)	-
Willa Cather				
A901	8	M. English; F.J. Waslick*	(gravure)	-
Nicolaus Copernicus				
A902	8	Alvin Eisenman; H.C. Mildner*	A.W. Dintaman	Albert Saavedra
Postal People				
A903	8	*Counter* Edward Vebell	(gravure)	-
A904	8	*Collection*		
A905	8	*Belt*		
A906	8	*Sorting*		
A907	8	*Canceling*		
A908	8	*Man. Rout.*		
A909	8	*Routing*		
A910	8	*Loading*		
A911	8	*Mailman*		
A912	8	*Rural Mail*		
Harry S. Truman				
A913	8	B. Thompson; V.J. Ruther*	J.S. Creamer, Jr.	H.F. Sharpless
Electronics Progress				
A914	6	W.&N. Einsel; R.C. Sharpe*	A.W. Dintaman	Robert G. Culin
A915	8		Edward P. Archer	
A916	15		Thomas R. Hipschen	
			Edward P. Archer	
Lyndon B. Johnson				
A917	8	Bradbury Thompson	(gravure)	-

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Rural America — Angus Cattle				
A918	8	F.C. Murphy; F.J. Waslick*	J.S. Creamer, Jr.	Kenneth C. Wiram
Chautauqua				
A919	10	J. Falter; F.J. Waslick*	A.W. Dintaman	Kenneth C. Wiram
Wheat Fields				
A920	10	J. Falter; F.J. Waslick*	John S. Wallace, Jr.	Kenneth C. Wiram
Christmas				
A921	8	Bradbury Thompson	(gravure)	-
A922	8	Dolli Tingle; F.J. Waslick*	(gravure)	-
		(Nos. A921 *Madonna*, A922 *Needlepoint.*)		
50- and 13-Star Flags				
A923	10	R. Wicks; R. Sharpe*	Edward P. Archer	J.L. Goodbody
Jefferson Memorial				
A924	10	D. Ellis; R. Sharpe*	Robert G. Culin	Thomas G. Culin
ZIP Code				
A925	10	Randall McDougall	(gravure)	-
Liberty Bell				
A926	6⅔	Frank Lionetti	John S. Wallace, Jr.	Kenneth C. Wiram
			1974	
VFW				
A928	10	R. Hallock; Ruther*	H.F. Sharpless	H.F. Sharpless
Robert Frost				
A929	10	P. Calle; F.J. Waslick*	A.W. Dintaman	Robert G. Culin
EXPO '74				
A930	10	P. Max; R.C. Sharpe*	(gravure)	-
Horse Racing				
A931	10	Henry Koehler; V.J. Ruther*	(gravure)	-
Skylab				
A932	10	R.T. McCall; V.J. Ruther*	J.S. Creamer, Jr.	Albert Saavedra
Centenary of UPO				
A933	10	B. Thompson; F.J. Waslick*	(gravure)	-
A934	10			
A935	10			
A936	10			
A937	10			
A938	10			
A939	10			
A940	10			
		(A933-940: Raphael, Hokusai, Peto, Liotard, Terborch, Chardin, Gainsborough & Goya.)		
Mineral Heritage				
A941	10	L.E. Buckley; F.J. Waslick*	A.W. Dintaman	
A942	10		J.S. Creamer, Jr.	
A943	10		Edward P. Archer	
A944	10		Thomas R. Hipschen	
		(A941-944: Petrified Wood, Tourmaline, Amethyst & Rhodochrosite.)		
Kentucky Settlement				
A945	10	David K. Stone; V. Jack Ruther*	J.S. Creamer, Jr.	Robert G. Culin
American Bicentennial				
A946	10	Frank P. Conley; R.C. Sharpe*	Robert G. Culin	Albert Saavedra
A947	10		Edward P. Archer	
A948	10		Albert Saavedra	
A949	10		Albert Saavedra	
		(Nos. A946 *Congress*, A947 *Liberty*, A948 *Just Powers*, A949 *Independence Hall.*)		
Energy Conservation				
A950	10	R.W. Bode; E. Porter*	H.F. Sharpless	(offset/intaglio)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
American Folklore — Sleepy Hollow				
A951	10	L.E. Fisher; P. Cocci•	J.S. Wallace, Jr.	Robert G. Culin
Retarded Children				
A952	10	P. Calle; F.J. Waslick•	J.S. Creamer, Jr.	H.F. Sharpless
Christmas				
A953	10	B. Thompson; R.C. Sharpe•	(gravure)	-
A954	10	S. Dohanos; P. Cocci•		
A955	10	D. Hedin, R. Geissmann; V. Jack Ruther•		
		(Nos. A953 *Angel*, A954 *The Road*, A955 *Dove*.)		
		1975		
American Arts				
A956	10	B. Thompson; E. Porter•	(gravure)	-
A957	10	W.D. Richards	(gravure)	-
A958	10	Fred Otens	Edward P. Archer	J.L. Goodbody
		(Nos. A956 *West*, A957 *Dunbar*, A958 *Griffith*.)		
Space				
A959	10	Robert McCall	Edward P. Archer	J.L. Goodbody
A960	10	Roy Gjertson	J.S. Wallace, Jr.	Kenneth C. Wiram
		(Nos. A959 *Pioneer*, A960 *Mariner*; both were modeled by V. Jack Ruther.)		
Collective Bargaining				
A961	10	R. Hallock; P. Cocci•	(gravure)	-
American Bicentennial				
A962	8	Neil Boyle; P. Cocci•		
A963	10			
A964	10			
A965	18			
		(Nos. 962 *Ludington*, A963 *Salem Poor*, A964 *Salomon*, A965 *Francisco*.)		
Lexington-Concord				
A966	10	B. Thompson; P. Cocci•	(gravure)	-
Battle of Bunker Hill				
A967	10	B. Thompson; P. Cocci•	(gravure)	-
Military Uniforms				
A968	10	B. Thompson; P. Cocci•	(gravure)	-
A969	10			
A970	10			
A971	10			
		(Nos. A968 *Button*, A969 *Navy Jack*, A970 *Ship*, A971 *Powder Horn*.)		
Apollo — Soyuz				
A972	10	R. McCall; R.C. Sharpe•	(gravure)	-
A973	10		(gravure)	
International Women's Year				
A974	10	M. Schottland; R.C. Sharpe•	(gravure)	-
Postal Service				
A975	10	J.L. Womer; E. Porter•	(gravure)	-
A976	10			
A977	10			
A978	10			
		(Nos. A975 *Truck*, A976 *Train*, A977 *Plane*, A978 *Satellite*.)		
World Peace Through Law				
A979	10	Melbourne Brindle; F.J. Waslick•	(gravure)	-

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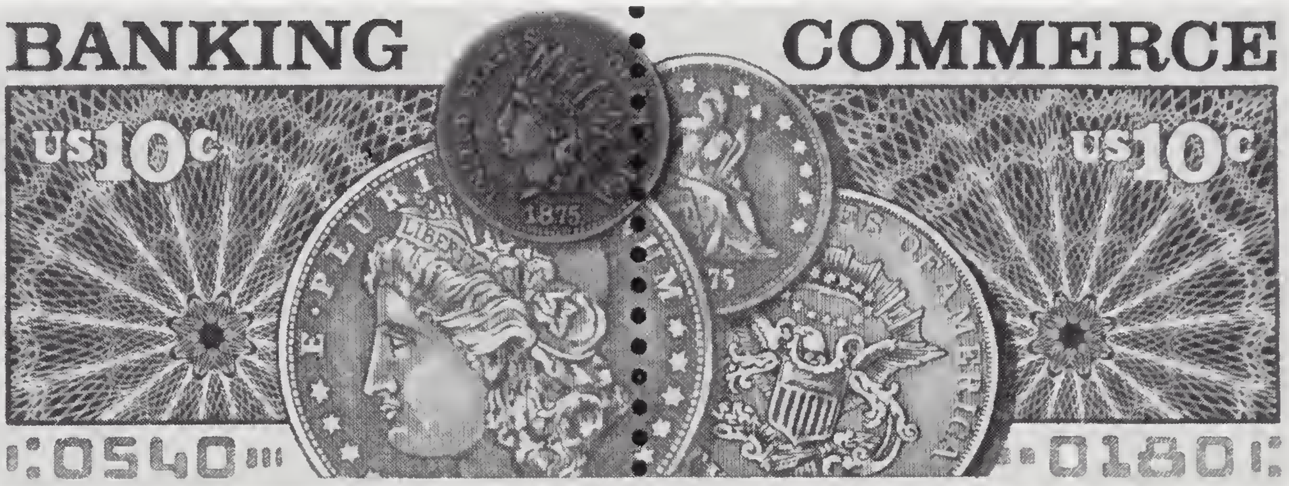

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Banking and Commerce				
A980	10	V. Jack Ruther	J.S. Wallace, Jr.	Richard G. Culin
A981	10	V. Jack Ruther	J.S. Wallace, Jr.	Richard G. Culin
Christmas				
A982	10	B.Thompson; E. Porter*	(gravure)	-
A983	10	S. Dohanos; E. Porter*	(gravure)	-
		(Nos. A982 *Madonna*, A983 *Christmas Card*.)		
			1975-1981	
Americana				
A984	1	Kramer, Miller, Lomden & Glassman; Clarence Holbert*	Albert Saavedra	Edward P. Archer
A985	2	V. Jack Ruther	J.S. Creamer, Jr.	Dennis Brown
A987	3	Clarence Holbert	J.L. Goodbody	Thomas R. Hipschen
A988	4	V. Jack Ruther	Robert G. Culin	Edward P. Archer
A994	9	Walter Brooks	Kenneth Kipperman	J.L. Goodbody
A995	10	W. Brooks; V.J. Ruther*	Kenneth Kipperman	Robert G. Culin
A996	11	W. Brooks; V.J. Ruther*	Kenneth Kipperman	Albert Saavedra
A997	12	-	-	-
A998	13	B. Glassman; V.J. Ruther*	Edward P. Archer	Albert Saavedra
A999	13	J. Womer; V.J. Ruther*	(gravure)	
A1001	15	V. Jack Ruther	Thomas R. Hipschen	Robert G. Culin
A1002	16	Clarence Holbert	Edward P. Archer	T.J. Bakos
A1006	24	B. Glassman; Ruther*	Edward P. Archer	J.L. Goodbody
A1007	28	J. Schleyer; Holbert*	J.S. Creamer, Jr.	Albert Saavedra
A1008	29	J. Schleyer; Holbert*	J.S. Wallace, Jr.	Dennis Brown
A1009	30	James Schleyer	Kenneth Kipperman	Gary Slaght
A1011	50	James Schleyer	Edward P. Archer	T.J. Bakos
A1013	$1	James Schleyer	Gary Chaconas	J.L. Goodbody
A1013a	$2	J. Schleyer;	J.S. Creamer, Jr.	Robert G. Culin
A1014	$5	James Schleyer	Gary M. Chaconas	Dennis Brown
A1014a	3.1	George Mercer	Gary M.Chaconas	Albert Saavedra
A1015	7.7	Susan Robb; V.J. Ruther*	Kenneth Kipperman	Albert Saavedra
A1016	7.9	B. Glassman; V.J. Ruther*	Edward P. Archer	Saavedra & Goodbody
A1017	8.4	V. Jack Ruther*	Gary M. Chaconas	J.L. Goodbody
			1975-1977	
A1018	13	Brindle; Waslick*	J.S. Creamer, Jr.	Robert G. Culin
A1018a	13	Esther Porter		
			1976	
American Bicentennial				
A1019	13	V.E. Hoffman & F.J. Waslick	(gravure)	-
A1020	13			
A1021	13			
		(Nos. A1019 *Drummer Boy*, A1020 *Old Drummer*, A1021 *Fiver*.)		

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
INTERPHIL				
A1022	13	T.W. McCaffrey & R.C. Sharpe	Albert Saavedra	Albert Saavedra
State Flags — 13¢				
A1023-1072		W. Reed & P. Cocci	(gravure)	-
Telephone Centenary				
A1073	13	G. Tscherny; F.J. Waslick*	J.S. Wallace, Jr.	J.L. Goodbody
Commercial Aviation				
A1074	13	R.E. Cunningham; P. Cocci*	(gravure)	-
Chemistry				
A1075	13	K. Davies & C. Holbert	(gravure)	-
American Bicentennial				
A1076	13			
A1077	18	V.E. Hoffman & F.J. Waslick	(gravure)	-
A1078	24			
A1079	31			
(Nos. A1076 *Yorktown*, A1077 *Declaration of Independence*, A1078 *Delaware*, A1079 *Valley Forge*.)				
Benjamin Franklin				
A1080	13	B. Reilander; E. Porter*	J.S. Creamer, Jr.	Albert Saavedra
Declaration of Independence — 13¢				
A1081-1084		Vincent E. Hoffman	(gravure)	-
Olympic Games — 13¢				
A1085-1088		D. Moss; E. Porter*	(gravure)	-
Clara Maas				
A1089	13	P. Calle; P. Cocci*	(gravure)	-
Adolph S. Ochs				
A1090	13	B. Thompson; C. Holbert*	(gravure)	-
Christmas				
A1091	13	B. Thompson; F.J. Waslick*	(gravure)	-
A1092	13	S. Dohanos; P. Cocci*	(gravure)	-
(Nos. A1091 *The Nativity*, A1092 *Pastime*.)				
1977				
American Bicentennial — Washington				
A1093	13	B. Thompson; V.J. Ruther*	(gravure)	-
Sound Recording				
A1094	13	W. Einsel; R.C. Sharpe*	Thomas R. Hipschen	Kenneth C. Wiram
American Folk Art — 13¢				
A1095-1098		F. Ruthing; P. Cocci*	(gravure)	-
Lindbergh Flight				
A1099	13	R.E. Cunningham; E. Porter*	(gravure)	-
Colorado Statehood				
A1100	13	V. Jack Ruther*	(gravure)	-
Butterflies — 13¢				
A1101-1104		S. Galli; Holbert*	(gravure)	-
American Bicentennial — Lafayette				
A1105	13	B. Thompson; P. Cocci*	J.S. Creamer, Jr.	Albert Saavedra
Skilled Hands — 13¢				
A1106-1109		L.E. Fisher; E. Porter*	(gravure)	-
Peace Bridge				
A1110	13	B. Brussel-Smith; P. Cocci*	J.S. Creamer, Jr.	Robert G. Culin
American Bicentennial — Oriskany				
A1111	13	B. Thompson; V.J. Ruther*	(gravure)	-

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Energy — 13¢				
A1112-1113		T.W. McCaffrey; C. Holbert*	(gravure)	-
Alta California				
A1114	13	E. Thollander; F.J. Waslick*	J.S. Wallace, Jr.	J.C. Masure
American Bicentennial — Articles of Confederation				
A1115	13	D. Blossom; F.J. Waslick*	Thomas R. Hipschen	Robert G. Culin
Talking Pictures				
A1116	13	W. Einsel; R.C. Sharpe*	Albert Saavedra	Thomas R. Hipschen
American Bicentennial — Saratoga				
A1117	13	B. Thompson; V.J. Ruther*	(gravure)	-
Christmas				
A1118	13	S. Dohanos; R.C. Sharpe*	(gravure)	-
A1119	13	D. Tingle; R.C. Sharpe*	(gravure)	-

(Nos. A1118 *Washington*, A1119 *Mailbox*.)

1978

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Carl Sandburg				
A1120	13	W.A. Smith; R.C. Sharpe*	Kenneth Kipperman	Albert Saavedra
Captain Cook				
A1121	13	R.F. Szabo; P. Cocci*	J.S. Wallace, Jr.	Robert G. Culin
A1122	13	J. Katalan; P. Cocci*	Edward P. Archer	Robert G. Culin
Indian Head Cent				
A1123	13	W. Brooks; E. Porter*	T.R. Hipschen	Albert Saavedra
Eagle — A				
A1124	15	B. Thompson; R.C. Sharpe*	Edward P. Archer	Albert Saavedra
Rose Booklet				
A1126	15	Mary Faulconer; V.J. Ruther*	Kenneth Kipperman	Albert Saavedra

1980

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Windmills — 15¢				
A1127-1131		Ronald C. Sharpe*	Kenneth Kipperman	Albert Saavedra

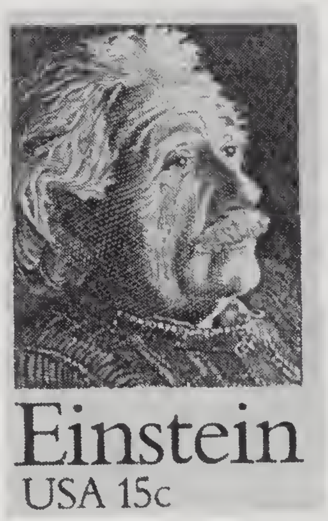
1978

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Harriet Tubman				
A1133	13	J. Pinkney; C. Holbert*	(gravure)	-
American Folk Art — Quilts — 13¢				
A1134-1137		C. Pullman; E. Porter*	(gravure)	-
American Dance — 13¢				
A1138-1141		John Hill; P. Cocci*	(gravure)	-
American Bicentennial — French Alliance				
A1142	13	B. Thompson; P. Cocci*	J.S. Creamer, Jr.	Albert Saavedra

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Early Cancer Detection				
A1143	13	P. Calle; V.J. Ruther*	J.S. Creamer, Jr.	Robert G. Culin
Performing Arts — 13¢				
A1144-1145		J. Sharpe; R.C. Sharpe*	(gravure)	-
CAPEX — sheet				
A1146	13	S. Galli; E. Porter*	J.S. Wallace, Jr. & T.R. Hipschen	Albert Saavedra
Photography				
A1147	15	B. Somoroff; F.J. Waslick*	(gravure)	-
Viking Missions				
A1148	15	R. McCall; R.C. Sharpe*	Edward P. Archer	Robert G. Culin
American Owls — 15¢				
A1149-1152		F.J. Waslick*	J.S. Creamer, Jr.	Albert Saavedra
American Trees — 15¢				
A1153-1156		W.D. Richards; P. Cocci*	(gravure)	-
Christmas — 15¢				
A1157	15	B. Thompson; P. Cocci*	(gravure)	-
A1158	15	D. Tingle; P. Cocci*	(gravure)	-

(Nos. A1157 *Madonna*, A1158 *Horse*.)

1979



Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Robert F. Kennedy				
A1159	15	Bradbury Thompson	Thomas R. Hipschen	Albert Saavedra
Martin Luther King				
A1160	15	Jerry Pinkney	(gravure)	-
Year of the Child				
A1161	15	Paul Calle	J.S. Creamer, Jr.	Albert Saavedra
John Steinbeck				
A1162	15	Bradbury Thompson	T.R. Hipschen	J.C. Masure
Albert Einstein				
A1163	15	Bradbury Thompson	J.S. Wallace, Jr.	J.C. Masure
American Folk Art — Toleware — 15¢				
A1164-1167		Bradbury Thompson	(gravure)	-
American Architecture — 15¢				
A1168-1171		Walter D. Richards	J.S. Creamer,Jr., K. Kipperman & J.S. Wallace, Jr.	Albert Saavedra
Endangered Flora — 15¢				
A1172-1175		Frank J. Waslick	(gravure)	-
Seeing Eye Dogs				
A1176	15	Joseph Csatari	(gravure)	-

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Special Olympics				
A1177	15	Jeff Cornell	(gravure)	-
John Paul Jones				
A1178	15	Bradbury Thompson	(gravure)	-
Summer Olympic Games				
A1179-1183		Robert M. Cunningham	(gravure)	-
Winter Olympic Games — 15¢				
A1184-1187		Robert M. Cunningham	(gravure)	-
Christmas — 15¢				
A1188	15	Bradbury Thompson	(gravure)	-
A1189	15	Eskil Ohlsson	(gravure)	-
		(A1188 *Madonna*, A1189 *Ornament*.)		
Performing Arts — Will Rogers				
A1190	15	James Sharpe	(gravure)	-
Viet Nam Veterans				
A1191	15	Stevan Dohanos	(gravure)	-
			1980	
W.C. Fields				
A1192	15	J. Sharpe; E. Porter*	(gravure)	-
Benjamin Banneker				
A1193	15	J. Pinkney; R.C. Sennett*	(gravure)	-
Letter Writing — 15¢				
A1194-1197		R. McDougall; V.J. Ruther*	(gravure)	-
Americana — Violins				
A1199	3.5	G. Mercer; E. Porter*	Gary M. Chaconas	J.L. Goodbody
Eagle — B				
A1207	18	B. Thompson; P. Cocci*	Edward P. Archer	Albert Saavedra
Francis Perkins				
A1208	15	F.R. Petrie; V.J. Ruther*	T.R. Hipschen	Robert G. Culin
Dolley Madison				
A1209	15	Esther Porter*	J.S. Creamer, Jr.	Albert Saavedra
Emily Bissell				
A1210	15	S. Dohanos; E. Porter*	J.S. Creamer, Jr.	Albert Saavedra
Helen Keller				
A1211	15	P. Calle; Holbert*	T.R. Hipschen	Thomas J. Bakos
Veterans Administration				
A1212	15	M. Grear & P. Crosby	(gravure)	-
General Bernardo de Galvez				
A1213	15	Roy Andersen	T.R. Hipschen	Albert Saavedra
Coral Reefs — 15¢				
A1214-1217		C. Ripper; P. Cocci*	(gravure)	-
Organized Labor				
A1218	15	P. Cocci* & V.J. Ruther*	(gravure)	-
Edith Wharton				
A1219	15	B. Thompson; C. Holbert*	T.R. Hipschen	J.L. Goodbody
American Education				
A1220	15	B. Thompson**; R.C. Sennett*	(gravure)	-
American Folk Art — 15¢				
A1221-1224		B. Thompson**; R.C. Sharpe*	(gravure)	-
American Architecture				
A1225	15	Walter D. Richards; Esther Porter*	K. Kipperman	Robert G. Culin
A1226	15		J.C. Creamer, Jr.	Robert G. Culin
A1227	15		T.R. Hipschen	Robert G. Culin
A1228	15		J.S. Wallace, Jr.	Robert G. Culin
		(Nos. A1225 *Renwick*, A1226 *Rich*, A1227 *Furness*, A1228 *Davis*.)		

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Christmas				
A1229	15	Esther Porter*	(gravure)	-
A1230	15	Bob Timberlake; R.C. Sharpe*	(gravure)	-

(Nos. A1229 *Madonna*, A1230 *Greetings*.)

1980-1985
Great Americans

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
A1231	1	B. Fuchs; C. Holbert*	Gary M. Chaconas	Dennis Brown
A1232	2	Burt Silverman	-	-
A1233	3	W. Brackett; C. Holbert*	J.S. Creamer, Jr.	Gary J. Slaght
A1234	4	R. Sparks; Porter*	T.R. Hipschen	Gary J. Slaght
A1235	5	Paul Calle; C. Holbert*	T.R. Hipschen	Gary J. Slaght
A1236	6	Dennis Lyall	T.R. Hipschen	Robert G. Culin
A1237	7	R. Sparks; Porter*	K. Kipperman	Dennis Brown
A1238	8	Arthur Lidov	J.S. Wallace, Jr.	Gary J. Slaght
A1239	9	R.A. Anderson	K. Kipperman	Stanley Scantlin
A1240	10	Richard Sparks	K. Kipperman	Thomas J. Bakos
A1241	11	R. Anderson; R.C. Sharpe*	J.S. Wallace, Jr.	Robert G. Culin
A1242	13	Brad Holland	-	-
A1243	14	B.T.; R.C. Sharpe*	T.R. Hipschen	Stanley Scantlin
A1244	17	W. Brackett; Ruther*	K. Kipperman	Albert Saavedra
A1245	18	Richard Sparks; R.C. Sharpe*	Gary M. Chaconas	J.L. Goodbody
A1246	19	R. Anderson; V.J. Ruther*	J.S. Wallace, Jr.	Albert Saavedra
A1247	20	D. Lyall; C. Holbert*	Gary M. Chaconas	Gary J. Slaght
A1248	20	D. Lyall; C. Holbert*	Gary M. Chaconas	Gary J. Slaght
A1249	20	Christopher Calle	Thomas R. Hipschen	Robert G. Culin
A1250	22	Christopher Calle	Thomas R. Hipschen	Gary Slaght
A1251	30	Richard Sparks	Gary M. Chaconas	Thomas J. Bakos
A1252	35	Nathan Jones	T.R. Hipschen	Gary J. Slaght
A1253	37	Roy Anderson	-	-
A1254	39	R. Anderson; B. Thompson**	Gary M. Chaconas	Dennis Brown
A1255	40	Ward Brackett	K. Kipperman	Gary J. Slaght
A1256	50	C. Calle; C. Holbert*	T.R. Hipschen	Robert G. Culin

1981

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Everett Dirksen				
A1261	15	R. Adair; C. Holbert*	J.S. Wallace, Jr.	J.L. Goodbody
Whitney Moore				
A1262	15	J. Pinkney; C. Holbert*	(gravure)	-
Flowers — 18¢				
A1263-1266		L. Nesbitt; F.J. Waslick*	(gravure)	-
Flags				
A1277	18	Peter Cocci*	T.R. Hipschen	Culin & Wiram
A1278	18	Peter Cocci*	T.R. Hipschen	Culin & Wiram
A1279	6	Peter Cocci*	E.P. Archer & K.C.Wiram	Thomas J. Bakos
A1280	18	Peter Cocci*	T.R. Hipschen	Culin & Wiram
A1281	20	Dean Ellis; F.J. Waslick*	Edward P. Archer	Robert G. Culin

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
1981-1984 Transportation				
A1283	1	D. Stone; C. Holbert*	Gary M. Chaconas	Robert G. Culin
A1284	2	D. Stone; C. Holbert*	J.S. Wallace, Jr.	Robert G. Culin
A1284a	3	W. Brooks; C. Holbert*	Edward P. Archer	Thomas J. Bakos
A1285	4	James Schleyer	Kenneth Kipperman	Gary J. Slaght
A1286	5	Walter Brooks; R.C. Sharpe*	Kenneth Kipperman	Dennis Brown
A1287	5.2	Walter Brooks; R.C. Sharpe*	Edward P. Archer	Robert G. Culin
A1288	5.9	D. Stone; C. Holbert*	Gary M. Chaconas	Thomas J. Bakos
A1288a	7.4	James Schleyer	-	-
A1289	9.3	James Schleyer; C. Holbert*	Gary M. Chaconas	Gary J. Slaght
A1290	10.9	D. Stone; C. Holbert*	Edward P. Archer	Thomas J. Bakos
A1290a	11	James Schleyer	-	-
A1291	17	C. Jaquays; C. Holbert*	Edward P. Archer	Thomas J. Bakos
A1292	18	D. Stone; C. Holbert*	Edward P. Archer	Thomas J. Bakos
A1294	20	James Schleyer; C. Holbert*	-	-
1983				
Express Mail				
A1296	$9.35	Young & Rubicam, Inc.	(gravure)	-
1981				
American Red Cross Centennial				
A1297	18	Joseph Cstari	(gravure)	-
Savings & Loans				
A1298	18	D.M. Hedin; F.J. Waslick*	(gravure)	-
Space Achievement — 18¢				
A1299-1306		R. McCall; C. Holbert*	(gravure)	-
Professional Management				
A1307	18	Rudolph de Harak; C. Holbert*	(gravure)	-
Preservation of Wildlife Habitats — 18¢				
A1308-1311		Chuck Ripper; P. Cocci*	(gravure)	-
International Year of Disabled Persons				
A1312	18	Martha Perske; R.C. Sharpe*	(gravure)	-
Edna St. Vincent Millay				
A1313	18	Glenora C. Richards; F.J. Waslick*	Gary J. Slaght	Gary J. Slaght
Alcoholism				
A1314	18	John Boyd; V.J. Ruther*	Thomas J. Bakos	Thomas J. Bakos
American Architecture				
A1315	18	Walter D. Richards; F.J. Waslick*	J.S. Wallace, Jr.	D. Brown & Robert G. Culin
A1316	18		T.R. Hipschen	
A1317	18		K. Kipperman	
A1318	18		Edward P. Archer	
(Nos. A1315 *White*, A1316 *Hunt*, A1317 *Maybeck*, A1318 *Sullivan*.)				
Athletes — 18¢				
A1319	18	R. Gangel; C. Holbert*	J.S. Wallace, Jr.	Albert Saavedra
A1320	18	R. Gangel; C. Holbert*	J.S. Creamer, Jr.	Albert Saavedra
(Nos. A1319 *Zaharias*, A1320 *Bobby Jones*.)				
Frederick Remington				
A1321	18	P. Calle; V.J. Ruther*	Gary M. Chaconas	Robert G. Culin
James Joban				
A1322	18	R. Mercer (portrait)	(gravure)	-
A1322	20	W.D. Richards (*White House*)		
American Bicentennial				
A1323	18	Cal Sacks	(offset)	Robert G. Culin
A1324	18	Cal Sacks	(offset)	Robert G. Culin
(Nos. A1323 *Yorktown*, A1324 *Virginia Capes*.)				

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Christmas				
A1325	20	B. Thompson: P. Cocci*	(gravure)	-
A1326	20	Naiad Einsel; P. Cocci*	(gravure)	-
		(Nos. A1325 *Madonna*, A1326 *Sled*.)		
John Hanson				
A1327	20	Ron Adair; C. Holbert*	(gravure)	-
Desert Plants				
A1328	20	F.J. Waslick*		
A1329	20			
A1330	20			
A1331	20			
		(Nos. A1328 *Barrel*, A1329 *Saguaro*, A1330 *Agave*, A1331 *Bobtail*.)		
"C"				
A1332	20	B. Thompson; V.J. Ruther*	Edward P. Archer	Thomas J. Bakos
A1333	20	B. Thompson; V.J. Ruther*	Edward P. Archer	Robert G. Culin
		(Nos. 1332 coil, A1333 booklet.)		
Franklin D. Roosevelt				
A1335	20	Clarence Holbert*	-	-
Love				
A1336	20	Mary Faulconer	(gravure)	-
George Washington				
A1337	20	M. English; E. Porter*	(gravure)	-
State Birds & Flowers — 20¢				
A1338-1387		Arthur Singer (birds) Alan Singer (flowers)	(gravure)	-
U.S. — Netherlands				
A1388	20	H.T. Wybrandi-Raue; Peter Cocci*	(gravure)	-
Library of Congress				
A1389	20	B. Thompson; C. Holbert*	T.R. Hipschen	Robert G. Culin
Consumer Education				
A1390	20	John Boyd	J.S. Creamer, Jr.	Albert Saavedra
Knoxville World's Fair — 20¢				
A1391-1394		C. Harper; C. Holbert*	(gravure)	-
Horatio Alger				
A1395	20	R. Hallock; C. Holbert*	Gary Slaght	Gary M. Chaconas
Aging Together				
A1396	20	P. Calle; F.J. Waslick*	J.S. Wallace, Jr.	Robert G. Culin
Barrymores				
A1397	20	James Sharpe	(gravure)	-
Dr. Mary E. Walker				
A1398	20	Glenora C. Richards; Ronald C. Sharpe*	(gravure)	-
International Peace Garden				
A1399	20	Gyo Fujikawa	(offset/intaglio)	-
American Libraries				
A1400	20	Bradbury Thompson	(offset/intaglio)	-
Jackie Robinson				
A1401	20	Jerry Pinkney	(gravure)	-
Touro Synagogue				
A1402	20	D. Moss; B. Thompson**	(gravure/intaglio)	-

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Wolf Trap Farm Park				
A1403	20	Richard Schlecht; Ronald C. Sharpe*	(gravure)	-
American Architecture — 20¢				
A1404-1407		Walter D. Richards; Esther Porter*	J.S. Creamer, Jr., E.P. Archer, K Kipperman & T.R. Hipschen	G.J. Slaght & Dennis Brown
St. Francis of Assisi				
A1408	20	Ned Seidler	(printed by ABNCo)	(gravure)
Ponce de León				
A1409	20	Richard Schlecht	(gravure)	-
Christmas				
A1410	13	C. Ripper; P. Cocci*	(gravure)	-
A1411	20	B. Thompson**; R.C. Sharpe*	(gravure)	-
A1412-1415		Dolli Tingle (20¢)	(gravure)	-
			1983	
Science & Industry				
A1416	20	Saul Bass; R.C. Sharpe*	Robert G. Culin	Robert G. Culin
Baloons — 20¢				
A1417-1420		Davis Meltzer; R.C. Sharpe*	(gravure)	-
United States — Sweden				
A1421	20	Dan Jonsson	Czeslaw Slania	Czeslaw Slania
		(Both Jonsson and Slania work in Sweden.)		
Civilian Conservation Corps				
A1422	20	D.K. Stone; E. Porter*	(gravure)	-
Joseph Priestly				
A1423	20	D. Lyall; R.C. Sennett*	(gravure: JWF)	-
Volunteerism				
A1424	20	P. Calle; E. Porter*	Kenneth Kipperman	Gary J. Slaght
United States — Germany				
A1425	20	R. Schlecht; E. Porter*	Thomas R. Hipschen	Thomas J. Bakos
Brooklyn Bridge				
A1426	20	H. Koslow; E. Porter*	Edward P. Archer	Robert G. Culin
T.V.A.				
A1427	20	H. Koslow; C. Holbert*	Gary J. Slaght	Gary J. Slaght
Physical Fitness				
A1428	20	D. Moss; F.J. Waslick*	(gravure)	-
Scott Joplin				
A1429	20	Jerry Pinkney; R.C. Sharpe*	(gravure)	-
Medal of Honor				
A1430	20	D.J. Holm; V.J. Ruther*	Thomas J. Bakos	Thomas J. Bakos
Babe Ruth				
A1431	20	R. Gangel; E. Porter*	J.S. Wallace, Jr.	Gary J. Slaght
Nathaniel Hawthorne				
A1432	20	B. Thompson; R.C. Sharpe*	(gravure)	-
Los Angeles Olympics — 13¢				
A1433-1436		R. Peak; C. Holbert*	(gravure)	-
Treaty of Paris				
A1437	20	D. Blossom; E.Porter*	(gravure)	-
Civil Service				
A1438	20	Kathleen W. Herring (MDM Communications); E. Porter*	(gravure/intaglio)	Robert G. Culin
Metropolitan Opera				
A1439	20	Ken Davies; F.J. Waslick*	J.S. Creamer, Jr.	Thomas J. Bakos

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
American Inventors — 20¢				
A1440-1443		Dennis Lyall; C. Holbert*	(*Steinmetz & Armstrong*) T.R. Hipschen; (*Tesla & Farnsworth*) K. Kipperman	Robert G. Culin
Streetcars — 20¢				
A1444-1447		R. Leech; P. Cocci*	(offset/intaglio)	Dennis Brown
Christmas				
A1448	20	B. Thompson; R.C. Sharpe*	(gravure)	-
A1449	20	John Berkey; E. Porter*	(gravure)	-
Martin Luther				
A1450	20	B. Thompson; R.C. Sennett*	(gravure: JWF)	-
			1984	
Alaska Statehood — 25th Anniversary				
A1451	20	Bill Bond	(printed by ABNCo)	(gravure)
Winter Olympic Games — 20¢				
A1452-1455		R. Peak; R.C. Sharpe*	(gravure)	-
F.D.I.C.				
A1456	20	M.D. Brown; C. Holbert*	(gravure)	-
Love				
A1457	20	B. Thompson; E. Porter*	(gravure/intaglio)	-
Carter G. Woodson				
A1458	20	J. Pinkney; R.C. Sennett*	(gravure: JWF)	-
Soil and Water Conservation				
A1459	20	M.D. Brown; C. Holbert*	(gravure)	-
Credit Union Act — 50th Anniversary				
A1460	20	M.D. Brown; C. Holbert*	(gravure)	-
Orchids — 20¢				
A1461-1464		Manabu Saito; C. Holbert*; H. Paine**	(gravure)	-
Hawaii Statehood — 25th Anniversary				
A1465	20	Herb Kane; R.C. Sennett*; H. Paine**	(printed by ABNCo)	(gravure)
National Archives				
A1466	20	M.D. Brown; C. Holbert*	(gravure)	-
Los Angeles Olympics — 20¢				
A1467-1470		R. Peak; C. Holbert*; Bradbury Thompson**	(gravure)	-
New Orleans World Exposition				
A1471	20	C. Ripper; C. Holbert*; R. Sheaff**	(gravure)	-
Health Research				
A1472	20	T. Smith; R.C. Sennett*; R. Sheaff**	(gravure: JWF)	-
Douglas Fairbanks				
A1473	20	J. Sharpe; F.J. Waslick*	Gary M. Chaconas	Dennis Brown
Jim Thorpe				
A1474	20	R. Gangel; E. Porter*	Thomas R. Hipschen	Gary Slaght
John McCormack				
A1475	20	J. Sharpe (U.S.) & R. Mercer (Ireland); F.J. Waslick*	(gravure)	-
St. Lawrence Seaway — 25th Anniversary				
A1476	20	E. Barenscher (Canada); R.C. Sennett*	(gravure: JWF)	-

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Waterfowl Preservation Act — 50th Anniversary				
A1477	20	Jay Norwood Darling	J.S. Wallace, Jr.	Robert G. Culin
Roanoke Voyages				
A1478	20	C. Lundgren; R.C. Sennett•; B. Thompson••	(gravure: JWF)	-
Herman Melville				
A1479	20	B. Thompson; F.J. Waslick•	Thomas R. Hipschen	Robert G. Culin
Horace Moses				
A1480	20	D. Lyall; F.J. Waslick•	Thomas R. Hipschen	Robert G. Culin
Smokey the Bear				
A1481	20	R. Wendelin; F.J. Waslick•; H. Paine••	Gary Chaconas (*Cub and Tree*)	-
Roberto Clemente				
A1482	20	Juan Lopez-Bonilla; C. Holbert•; B. Thompson••	(gravure)	-
Dogs — 20¢				
A1483-1486		Roy Andersen; R.C. Sharpe•	(gravure)	-
Crime Prevention				
A1487	20	R. McDougall••; R.C. Sennett•	(gravure: JWF)	-
Hispanic Americans				
A1488	20	Robert McCall; C. Holbert•; Bradbury Thompson••	(gravure)	-
Family Unity				
A1489	20	Molly LaRue; C. Holbert•; Bradbury Thompson••	G. J. Slaght (black print)	-
Eleanor Roosevelt				
A1490	20	B. Thompson; F.J. Waslick•	Thomas R. Hipschen	Robert G. Culin
Nation of Readers				
A1491	20	B. Thompson; E. Porter•	Thomas R. Hipschen	Dennis Brown
Christmas				
A1492	20	Bradbury Thompson	(gravure)	-
A1493	20	Danny LaBoccetta	(gravure)	-
Vietnam Veterans Memorial				
A1494	20	P. Calle; C. Holbert•; H. Paine••	J.S. Creamer, Jr.	J.L. Goodbody
		1985		
Jerome Kern				
A1495	22	James Sharpe••; R.C. Sennett•	(gravure: JWF)	-
"C"				
A1496	22	Bradbury Thompson	(gravure)	-
A1497	22	Bradbury Thompson	(gravure)	-
Flag over the Capitol				
A1498	22	F.J. Waslick•	Thomas R. Hipschen	Robert G. Culin
A1499	22	F.J. Waslick•	Thomas R. Hipschen	Robert G. Culin
Seashells — 22¢				
A1500-1504		Peter Cocci•; Bradbury Thompson••	(*Dogwinkle & Whelk*) T.R. Hipschen; (*Helmet*) G.M. Chaconas; (*Neptune*) J.S. Creamer; (*Scallop*) J.S. Wallace	Robert G. Culin
Eagle and Half Moon				
A1505	$10.75	Young & Rubicam; P. Cocci•	(gravure)	-
		Transportation		
A1506	3.4	Lou Nolan; R.C. Sharpe•	Kenneth Kipperman	Gary J. Slaght
A1507	4.9	W.H. Bond; E. Porter•	Gary M. Chaconas	Robert G. Culin
A1508	5.5	David K. Stone	J.S. Creamer, Jr.	Dennis Brown
A1509	6	J. Schleyer; B.T.••	Kenneth Kipperman	Thomas J. Bakos

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
A1510	7.1	K. Dallison* C. Holbert*	Gary M. Chaconas	Robert G. Culin
A1511	8.3	J. Schleyer; R.C. Sharpe*; Bradbury Thompson**	Gary M. Chaconas	J.S. Creamer, Jr.
A1512	8.5	W.H. Bond; B. Thompson**	Edward P. Archer	Michael J. Ryan
A1513	10.1	J. Schleyer; B.T.**	Edward P. Archer	Robert G. Culin
A1514	11	Ken Dallison; R.C. Sharpe*	T.R. Hipschen	Robert G. Culin
A1515	12	K. Dallison; E. Porter*	Gary M. Chaconas	Gary J. Slaght
A1516	12.5	J. Schleyer; B.Thompson**	Gary M. Chaconas	Robert G. Culin
A1517	14	W.H. Bond; E. Porter*	Gary M. Chaconas	Gary J. Slaght
A1518	17	Lou Nolan	Edward P. Archer	Slaght & J. Ryan
A1519	25	William H. Bond	Edward P. Archer	Michael J. Ryan
Mary McLeod Bethune				
A1520	22	Jerry Pinkney; R.C. Sennett*; B. Thompson**	(gravure: JWF)	-
Duck Decoys — 22¢				
A1521-1524		Steven Dohanos; R.C. Sennett*; B. Thompson**	(gravure: JWF)	-
Winter Special Olympics				
A1525	22	J. Cornell; C. Holbert*; B. Thompson**	(gravure)	-
Love				
A1526	22	Corita Kent**; P. Cocci*	(gravure)	-
Rural Electrification Administration				
A1527	22	H. Koslow; C. Holbert*; Bradbury Thompson**	(gravure/intaglio)	Gary J. Slaght
AMERIPEX '86				
A1528	22	R. Sheaff; E. Porter*	Gary Chaconas	Robert G. Culin
Abigail Adams				
A1529	22	B. Forbes**; E. Porter*	(gravure)	-
Frederick A. Bartholdi				
A1530	22	H. Paine**; R.C. Sharpe*	(offset/intaglio)	Gary J. Slaght
George Washington				
A1532	18	T. Szumowski; C. Holbert*; Richard Sheaff**	(gravure)	-
Envelopes				
A1533	21.1	R. Sheaf**; C. Holbert*	(gravure)	-
Korean War Veterans				
A1535	22	R. Sheaf**; R.C. Sharpe*	Thomas R. Hipschen	Gary J. Slaght
Social Security Act — 50th Anniversary				
A1536	22	R. Brangwyne; R.C. Sennett*; R. Sheaf**	(gravure: JWF)	-
World War I Veterans				
A1537	22	Richard Sheaf**	Czeslaw Slania	-
Horses — 22¢				
A1538-1541		Roy Anderson; R.C. Sharpe*; H. Paine**	(gravure)	-
Public Education				
A1542	22	Uldis Purins**; R.C. Sennett*	(gravure: JWF)	-
International Youth Year — 22¢				
A1543-1546		Dennis Luzak; R.C. Sennett*; B. Thompson**	(gravure: JWF)	-

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Help End Hunger				
A1547	22	Jerry Pinkney; R.C. Sennett*; B. Thompson**	(gravure: JWF)	-
Christmas				
A1548	22	B. Thompson**; R.C. Sharpe*	(gravure)	-
A1549	22	James Dean; E. Porter*; Howard Paine**	(gravure)	-
Arkansas Statehood — 50th Anniversary				
A1550	22	R. Carlisle; R.C. Sennett*, R. Sheaff**	(gravure: JWF)	-
		Great Americans		
A1551	1	R. Adair; F.J. Waslick*; Bradbury Thompson**	Gary Chaconas	Gary J. Slaght
A1552	2	Ron Adair; C. Holbert*	J.S. Creamer, Jr.	Robert G. Culin
A1553	3	C. Calle; C. Holbert*; B.T.**	J.S. Creamer, Jr.	Robert G. Culin
A1554	4	C. Calle; C. Holbert*	Thomas R. Hipschen	Michael J. Ryan
A1555	5	C. Calle; B. Thompson**	Kenneth Kipperman	Robert G. Culin
A1556	6	D. Lyall; C. Holbert*; Howard Paine**	Thomas R. Hipschen	Robert G. Culin
A1557	8	Arthur Lidov; R.C. Sharpe*	John S. Wallace, Jr.	Gary J. Slaght
A1558	9	R. Anderson; C. Holbert*	Kenneth Kipperman	Stanley E. Scantlin
A1559	10	R. Anderson; C. Holbert*; Bradbury Thompson**	J.S. Creamer, Jr.	Robert G. Culin
A1560	14	Ward Brackett; V. Jack Ruther*	J.S. Creamer, Jr.	Goodbody & Culin
A1561	15	J. Rosenthal; B. Thompson**	Thomas R. Hipschen	Michael J. Ryan
A1562	17	C. Calle; F.J. Waslick*	J.S. Creamer, Jr.	Dennis Brown
A1563	21	Susan Sanford; Bradbury Thompson**	Gary M. Chaconas	John Masure
A1564	22	C. Calle; V. Jack Ruther*; Bradbury Thompson**	Thomas R. Hipschen	Gary J. Slaght
A1565	23	D. Lyall; C. Holbert*; Bradbury Thompson**	Kenneth Kipperman	Bakos & Slaght
A1566	25	R. Sparks; B. Thompson**	Thomas R. Hipschen	Dennis Brown
A1567	28	R.D. Anderson	Gary Chaconas	Dennis Brown
A1567a	29	C. Calle; R. Sennett* B. Thompson**	Czeslaw Slania	(Canadian BNCo)
A1571	45	B. T.**; R.C. Sharpe*	Gary M. Chaconas	Michael J. Ryan
A1573	52	John Berkey; H. Paine**	-	-
A1574	56	Robert Anderson; C. Holbert*; R. Sheaff**	Thomas R. Hipschen	Robert G. Culin
A1575	65	C. Calle; B. Thompson**	Thomas R. Hipschen	Michael J. Ryan
A1576	75	Chris Calle; B. Thompson**	Thomas R. Hipschen	Richard Everett
A1577	$1	T. Broad; P. Cocci* Bradbury Thompson **	Kenneth Kipperman	Robert G. Culin
A1578	$2	Tom Broad; B. Thompson**	Thomas R. Hipschen	Dennis Brown
A1579	$5	A. Lidov; E. Porter*	Thomas R. Hipschen	Thomas Bakos
Stamp Collecting — 22¢				
A1581-1584		R. Sheaff** & Eva Jern (3); E. Porter*	1-Creamer; 2-K.K.; 3-L. Sjooblom; 4-T.R.H	1, 2 & 4-Culin; 3-L. Sjooblom
Love				
A1585	22	Saul Mandel; P. Cocci*; Bradbury Thompson**	(gravure)	-

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K.K. = Kenneth Kipperman; T.R.H. = Thomas R. Hipschen.

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Sojourner Truth				
A1586	22	Jerry Pinkney; R.C. Sennett*; B. Thompson**	(gravure: JWF)	-
Republic of Texas — 50th Anniversary				
A1587	22	R. Adair; R.C. Sennett*; Bradbury Thompson**	(gravure: JWF)	-
Fish — 22¢				
A1588-1592		C. Ripper; C. Holbert*; Bradbury Thompson**	(gravure)	-
Public Hospitals				
A1593	22	Uldis Purins; R.C. Sennett*; B. Thompson**	(gravure: JWF)	-
Duke Ellington				
A1594	22	James Sharpe; R.C. Sennett*; B. Thompson**	(gravure: JWF)	-
Presidents				
A1599	22	Jerry Dadds; E. Porter*; Bradbury Thompson**	I-Hipschen; II&III-Wallace; IV-Chaconas	J.C. Masure I-IV
Polar Explorers — 22¢				
A1600-1603		Dennis Lyall; R.C. Sennett*	(gravure: JWF)	-
Statue of Liberty				
A1604	22	Howard Paine**	C. Jumelet (France)	(gravure)
Transportation				
A1604a	1	David Stone	Gary M. Chaconas	Robert G. Culin
A1604b	2	David Stone	Gary M. Chaconas	Michael J. Ryan
Navajo Art — 22¢				
A1605-1608		D. Noyes; F.J. Waslick*	(offset/intaglio)	Robert G. Culin
T.S. Eliot				
A1609	22	B.Thompson; C. Holbert*	Thomas R. Hipschen	Robert G. Culin
Woodcarved Figures — 22¢				
A1610-1613		B. Thompson**; Richard C. Sennett*	(gravure: JWF)	
Christmas				
A1614	22	B.Thompson**; C. Holbert*	(gravure)	-
A1615	22	D. Tingle; C. Holbert;* Bradbury Thompson**	(gravure)	-

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
		1987		
Michigan Statehood — 150th Anniversary				
A1616	22	R. Wilbert; P. Cocci*	(gravure)	-
Pan American Games				
A1617	22	L. Busch; V.J. Ruther*	(gravure)	-
Love				
A1618	22	J. Alcorn; V.J. Ruther*	(gravure)	-
Jean Baptiste Pointe du Sable				
A1619	22	T. Blackshear; E. Porter*; Bradbury Thompson**	(gravure)	-
Enrico Caruso				
A1620	22	J. Sharpe; R.C. Sennett*	(gravure: JWF)	-
Girl Scouts — 25th Anniversary				
A1621	22	R. Sheaff**; R.C. Sharpe*	Edward P. Archer	(offset/intaglio)
		Transportation		
A1622	3	R. Schlecht; B. Thompson**	Thomas R. Hipschen	Dennis Brown
A1623	5	Lou Nolan**; C. Holbert*	Gary M. Chaconas	Dennis Brown
A1624	5.3	Lou Nolan; B. Thompson**	Gary M. Chaconas	Dennis Brown
A1625	7.6	R. Schlecht; B. Thompson**	Edward P. Archer	Gary J. Slaght
A1626	8.4	C. Calle; B. Thompson**	Gary M. Chaconas	Gary J. Slaght
A1627	10	W.H. Bond; B. Thompson**	Edward P. Archer	Robert G. Culin
A1628	13	Joe Brockert; C. Holbert*; Bradbury Thompson**	Edward P. Archer	Dennis Brown
A1629	13.2	R. Schlecht; B. Thompson**	Thomas R. Hipschen	Michael J. Ryan
A1630	15	R. Schlecht; C. Holbert*; Bradbury Thompson**	Gary M. Chaconas	Dennis Brown
A1631	16.7	Lou Nolan; R.C. Sharpe*; Bradbury Thompson**	Gary M. Chaconas	Dennis Brown
A1632	17.5	Tom Broad; P. Cocci*	Gary M. Chaconas	Gary J. Slaght
A1633	20	Dan Romano; F.J. Waslick*; Bradbury Thompson**	Edward P. Archer	Michael J. Ryan
A1634	20.5	C. Calle; C. Holbert*; Bradbury Thompson**	Thomas R. Hipschen	Gary J. Slaght
A1635	21	D. Stone; C. Holbert*; Bradbury Thompson**	Gary M. Chaconas	Dennis Brown
A1636	24.1	C. Calle; B. Thompson**	Gary M. Chaconas	Michael J. Ryan
Special Occasions — 22¢				
A1637-1644		Oren Sherman; F.J. Waslick*; Richard Sheaff**	(gravure)	-
United Way Centennial				
A1645	22	J. Pinkney; P. Cocci*	Kenneth Kipperman	(offset/intaglio)
U.S. Flag				
A1646	22	P. Cocci*	(gravure)	-
"E" Earth				
A1647	25	R. McCall; E. Porter*; Bradbury Thompson**	(gravure)	-
U.S. Flag				
A1648	25	Peter Cocci*	(gravure)	-
U.S. Flag				
A1649	25	P. Cocci*; B. Thompson**	Thomas R. Hipschen	Dennis Brown
Pheasant				
A1649a	25	Chuck Ripper; R. Sennett*; Bradbury Thompson**	(gravure: ABNCo)	-
Grosbeak				
A1649b	25	Chuck Ripper; R.C. Sharpe*; Bradbury Thompson**	(gravure)	-

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Owl				
A1649c	25	Chuck Ripper; R.C. Sharpe•; Bradbury Thompson••	(gravure)	-
Honeybee				
A1649d	25	C. Ripper; P. Cocci•; Bradbury Thompson••	Edward P. Archer	(offset/intaglio)
Wildlife — 22¢				
A1650-1699		C. Ripper; E. Porter•	(gravure)	-
1988				
Constitution Bicentennial				
A1700	22	(*DE*) R. Sheaff••	(gravure)	Robert G. Culin
A1701	22	(*PA*) R. Sheaff••; R. Sennett•	(gravure: JWF)	-
A1702	22	(*NJ*) J. Lamb; R. Sennett•; Richard Sheaff••	(gravure)	-
A1703	22	(*GA*) G. Harlan; R. Sennett•; B. Thompson••	(gravure: JWF)	-
A1704	22	(*CT*) C. Calle; R.C. Sharpe•; B. Thompson••	Thomas R. Hipschen	Michael J. Ryan
A1705	22	(*MA*) Richard Sheaff; E. Porter•;	Edward P. Archer	Gary J. Slaght
A1706	22	(*MD*) Stephen Hustvedt; E. Porter•; B. Thompson••	Joseph S. Creamer, Jr.	Dennis Brown
A1707	25	(*SC*) Bob Timberlake; R. Sennett•; B. Thompson••	(gravure: ABNCo)	-
A1708	25	(*NH*) T. Szumowski; R. Sennett•; R. Sheaff••	(gravure: ABNCo)	-
A1709	25	(*VA*) P. Mion; P. Cocci•	Thomas R. Hipschen	Michael J. Ryan
A1710	25	(*NY*) B. Thompson••; V.J. Ruther•	Edward P. Archer	Michael J. Ryan
A1711	25	(*NC*) B. Timberlake; R. Sennett•; B. Thompson••	(gravure: ABNCo)	-
Morocco				
A1713	22	H. Paine; Holbert•	(offset/intaglio)	Robert G. Culin
William Faulkner				
A1714	22	B. Thompson••; E. Porter•	Thomas R. Hipschen	Gary J. Slaght
Lacemaking — 22¢				
			Archer (upper left); Wallace (upper right); Chaconas (lower left); Hipschen (lower right)	Gary J. Slaght
Drafting of the Constitution — 22¢				
A1719-1723		B. Thompson••; C. Holbert•	(gravure)	-
Signing of U.S. Constitution				
A1724	22	H. Koslow; E. Porter•	-	Robert G. Culin
Certified Public Accountants				
A1725	22	L. Nolan; Porter•; Bradbury Thompson••	(offset/intaglio)	-
Locomotives — 22¢				
A1726-1730		R. Leech; C. Holbert• H. Paine••	(offset/intaglio)	-
Christmas				
A1731	22	B. Thompson; F.J. Waslick•	(gravure)	-
A1732	22	J. Dean; P. Cocci•; H. Paine••	(gravure)	-

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Winter Olympics				
A1733	22	Bart Forbes; R. Sennett*; Bradbury Thompson**	(gravure: ABNCo)	-
Australia Bicentennial				
A1734	22	R. Harvey (Australian); R.C. Sharpe*; B. Thompson**	(gravure)	-
James Weldon Johnson				
A1735	22	T. Blackshear; R. Sennett*; Bradbury Thompson**	(gravure: ABNCo)	-
Cats				
A1736	22	J. Dawson; R. Sennett* Howard Paine**	(gravure: ABNCo)	-
A1737	22			
A1738	22			
A1739	22			
Knute Rockne				
A1740	22	T.R. Hipschen & P. Cocci*	Thomas R. Hipschen	Gary J. Slaght
Francis Quimet				
A1741	25	M.G. Rudd; R. Sennett*; Bradbury Thompson**	(gravure: ABNCo)	-
Love				
A1742	22	R. Sheaff**; P. Cocci*	(gravure)	-
A1743	45	R. Sheaff**; R.C. Sharpe**	(gravure)	-
Summer Olympics				
A1744	25	B. Forbes; P. Cocci* Bradbury Thompson**	(gravure)	-
Classic Automobiles				
A1745	25	K. Dallison; P. Cocci*; B. Thompson**	Gary M. Chaconas	Michael J. Ryan
A1746	25		Gary M. Chaconas	
A1747	25		K. Kipperman	
A1748	25		K. Kipperman	
A1749	25		Gary M. Chaconas	

(Nos. A1745 *Loco*, A1746 *Pierce-Arrow*, A1747 *Cord*, A1748 *Packard*, A1749 *Dusenberg*.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Antartic Explorers				
A1750	25	D. Lyall; R. Sennett*; H. Paine**	(gravure: ABNCo)	-
A1751	25			
A1752	25			
A1753	25			

(Nos. A1750 *Palmer*, A1751 *Wilkes*, A1752 *Byrd*, A1753 *Ellsworth*.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Carousel Animals				
A1754	25	Paul Calle; C. Holbert*; Bradbury Thompson**	Thomas R. Hipschen	Dennis Brown
A1755	25			
A1756	25			
A1757	25			
Express Mail				
A1758	$8.75	N. Seidler; V.J. Ruther*; Bradbury Thompson**	Gary M. Chaconas	Dennis Brown
Special Occasions				
A1759	25	H. Zelenko; R. Sennett*; Bradbury Thompson**	(gravure: JWF)	-
A1760	25			
A1761	25			
A1762	25			
Christmas				
A1763	25	B. Thompson**; P. Cocci*	Thomas R. Hipschen	Michael J. Ryan
A1764	25	Joan Landis; R.C. Sharpe*; Bradbury Thompson**	(gravure)	-
Montana				
A1765	25	B. Thompson**; P. Cocci*	Thomas R. Hipschen	Michael J. Ryan

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
			1989	
A. Philip Randolph				
A1766	25	T. Blackshear	(gravure)	-
North Dakota				
A1767	25	W. Minor; R. Sennett*; Bradbury Thompson**	(gravure: ABNCo)	-
Washington				
A1768	25	H. Rogers; R. Sennett*; Bradbury Thompson**	(gravure: ABNCo)	-
Steamboats — 25¢				
A1769-1773		R. Schlecht**	Thomas R. Hipschen	Michael J. Ryan
World Stamp Expo '89				
A1774	25	R.D. Sheaff**	Edward P. Archer	(offset/intaglio)
Arturo Toscanini				
A1775	25	J. Sharpe; R. Sennett*	(gravure: ABNCo)	-
Constitution Bicentennial — 25¢				
A1776-1779		H. Kaslow	Thomas R. Hipschen	Michael J. Ryan
Ernest Hemingway				
A1782	25	M.G. Rudd; R. Sennett*; Bradbury Thompson**	(gravure: ABNCo)	-
Moon Landing, 20th Anniversary				
A1783	$2.40	C. Calle; B. Thompson**	(offset/intaglio)	-
Letter Carriers				
A1784	25	J. Davis; R. Sennett*; Bradbury Thompson**	(gravure: ABNCo)	-
Bill of Rights				
A1785	25	L. Nolan*	G. Slaght (let. & eagle)	K.C. Wiram (flag)
Dinosaurs and Pterosaur — 25¢				
A1786-1789		J. Gurchie; P. Cocci*	(offset/intaglio)	-
America				
A1790	25	L. Busch; R. Sennett*; Richard Sheaff**	(gravure: ABNCo)	-
Christmas				
A1791	25	B. Thompson**; P. Cocci*	Thomas R. Hipschen	Gary Slaght
A1792	25	S. Dohanos; P. Cocci*	(gravure)	-
EXTRAordinary, Self-Adhesive				
A1793	25	J. Haiden; R. Sennett*	(gravure: JWF)	-
WORLD STAMP EXPO '89 — Lincoln				
A1794	25	R.D. Sheaff;	Andy H. Shu	(offset/intaglio)
Postal Conveyance — 25¢				
A1795-1798		M. Hess; V.J. Ruther*	(offset/intaglio)	Michael J. Ryan
			1990	
Idaho Centennial				
A1799	25	J. Dawson; H. Paine**	(gravure: ABNCo)	-
Love				
A1800	25	Jayne Hertko	(booklets by BEP; sheets by USBNCo)	
Black Heritage — Ida B. Wells				
A1801	25	T. Blackshear; R. Sennett* Bradbury Thompson**	(gravure: ABNCo)	-
Beach Umbrella				
A1802	15	Pierre Mion	(gravure)	-
Wyoming State Centennial				
A1803	25	J. Rosenthal; P. Cocci*; B.T.**	Gary Chaconas	Dennis Brown

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Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Movies — 25¢				
A1804-1807		T. Blackshear; R. Sennett* D. Noyes**	(gravure: ABNCo)	-
Mariainne Craig Moore				
A1808	25	M.G. Rudd; R. Sennett*; B. Thompson**	(gravure: ABNCo)	-
		Transportation		
A1810	4	R. Schlecht; C. Holbert*; Bradbury Thompson**	-	-
A1811	5	Susan Sanford; F.J. Waslick*; Bradbury Thompson**	Gary Chaconas	Gary Slaght
A1812	5	P. Calle; R.C. Sharpe*; B. Thompson**	Kenneth Kipperman	Gary Slaght
A1816	10	D.K. Stone; R.C. Sharpe*; B. Thompson**	Gary Chaconas	Gary Slaght
A1823	23	R. Brangwynne; R. Sheaff**	Gary Chaconas	Gary Slaght
A1827	$1	C. Hodgson; F.J. Waslick*; B. Thompson**	Gary Chaconas	John Masure
Lighthouses — 25¢				
A1829-1833		H. Koslow; P. Cocci*; Howard Paine**	(offset/intaglio)	Gary Slaght
Flag				
A1834	25	H. Zelenko; J. Boyd* & **	(gravure: Avery Int.)	-
Wildlife				
A1835	$2	C. Ripper; P. Cocci*; B.T.**	Gary Chaconas	Gary Slaght
A1840	1	M. Matherly; B. Thompson**	(gravure: ABNCo)	
A1841	3	M. Matherly; B. Thompson**	(gravure: ABNCo)	
A1846	19	P. Cocci* & **	(gravure)	
A1848	30	R. Giusti; B. Thompson**	(gravure: GSV)	
A1850	45	M. Matherly; R. Sennett*; John Boyd**	(offset/intaglio: SV & The Press Inc.)	
A1852	29	R. Giusti; B. Thompson**	(gravure: BEP & KCS)	

(There are two versions of A1852: black letters by BEP, red letters by KCS.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Olympians — 25¢				
A1855-1859		Bart Forbes; R.Sennett*; Howard Paine**	(gravure: ABNCo)	-
Indian Headdresses				
A1860	25	L.H. Gill; P. Cocci*	Kenneth Kipperman	Gary Slaght
A1861			Gary Chaconas	
A1862			Thomas R. Hipschen	
A1863			Thomas R. Hipschen	
A1864			Kenneth Kipperman	

(Nos. A1860 *Assiniboine*, A1861 *Cheyenne*, A1862 *Comanche*, A1863 *Flathead*, A1864 *Shoshone*; all are printed offset/intaglio.)

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Micronesia, Marshall Islands — 25¢				
A1865 **A1866**		Herb Kane; C. Holbert*; Howard Paine**	(offset/intaglio)	Gary Slaght
Sea Creatures — 25¢				
A1867-1870		P. Cocci* (whale & dolphin); V. Beilin (sea lion & otter)	(offset intaglio)	Michael J. Ryan
Grand Canyon				
A1871	25	Mark Hess; R.C. Sennett*; R.D. Sheaff**	(gravure: ABNCo)	-
Dwight D. Eisenhower				
A1872	25	K. Hodges; R. Sennett*	(gravure: ABNCo)	-

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Christmas				
A1873	25	B.T.**; R.C. Sharpe*	Thomas R. Hipschen	Michael J. Ryan
A1874	25	L. Thiel; R.C. Sharpe*	(gravure)	Michael J. Ryan
		(Nos. A1873 *Madonna*, A1874 *Greetings*.)		
		1991		
Flower				
A1875	25	W. Marosek; P. Cocci*; Bradbury Thompson**	(gravure: USB; BEP; KCS)	-
Makeup Rate				
A1876	4	Richard Sheaff**;	(offset: ABNCo)	-
Flag, self-adhesive				
A1877	29	Harry Zalenko; J. Boyd* & **	(gravure: Avery)	-
Mt. Rushmore				
A1878	29	C. Holbert* & **	(gravure: ABNCo)	-
Flower				
A1879	29	W. Marosek; B. Thompson**	(gravure: USBNCo & KCS)	-
		(Sheets by USBNCo, booklets by KCS.)		
Flag with Olympic Rings				
A1880	29	J. Boyd; R. Sennett*	(gravure: KCS)	-
Fishing Boat				
A1881	19	Pierre Mion; CNW, Inc.*; B. Thompson**	gravure: ABNCo)	-
Balloon				
A1882	19	Pierre Mion; B. Thompson**	(gravure)	-
Flags				
A1883	29	F.J. Waslick & P. Cocci; Peter Cocci * & **	(gravure)	-
Liberty Torch				
A1884	29	Harry Zalenko; J. Boyd* & **	(gravure: Avery)	-
Switzerland, 700th Anniversary				
A1887	50	Hans Hartman (Switzerland); R. Sennett* & **	(photogravure: ABNCo)	-
Vermont State Bicentennial				
A1888	29	Sabra Field; R. Sennett*; Richard Sheaff**	(gravure)	-
Savings Bonds				
A1889	29	Primo Angeli**; P. Cocci*	(gravure)	-
Love				
A1890	29	H. Zalenko; C. Holbert*; B. Thompson**	(gravure: USBNCo)	-
Love Birds				
A1891	52	Nancy L. Krause; R. Sennett*; B. Thompson**	(gravure: ABNCo) -	-
William Saroyan				
A1892	29	Ren Wicks; R. Sennett*; B. Thompson**	(gravure: ABNCo)	-
Eagle & Olympic Rings				
A1893	$1	T. McCaffrey**; R. Sennett*	(gravure: JWF)	-
Priority Mail				
A1894	$2.90	Terrence McCaffrey* & **	Armandina Lozano	(offset/intaglio)
Express Mail				
A1895	$9.95		Armandina Lozano	(offset/intaglio)

At times the designer acted as modeler (*) or typographer (**), or both. The designer, modeler and typographer, in that order, are separated by (;).

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
International Express Mail				
A1896	$14	Timothy Knepp; NC*; T. McCaffrey**	Dick Jones	(offset/intaglio: ABNCo)
Fishing Flies – 29¢				
A1899-1903		C. Ripper; B. Thompson**	(gravure: ABNCo)	-
Southwest Asian Service Medal				
A1904	29	Jim Sharpe; R. Sennett*; Bradbury Thompson**	(gravure: ABNCo)	-
Desert Shield – Desert Storm				
A1905	29	Jack Williams; C. Holbert**	(gravure: ABNCo)	-
Olympics – 29¢				
A1907-1911		Joni Carter*; R. Sennett*	(gravure: ABNCo	-

Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Numismatics				
A1912	29	V. J. Ruther**; P. Cocci*	Thomas R. Hipschen	Richard Everett
World at War				
A1913	29	W.H. Bond; P. Cocci*; H. Paine**	(offset/intaglio)	-
Basketball				
A1914	29	L. Busch; R.D. Sheaff**	(gravure)	-
D.C. Bicentennial				
A1915	29	Pierre Mion; R.C. Sharpe*; D. Noyes**	(offset/intaglio)	Gary Slaght
Comedians – 29¢				
A1916-1920		Al Hirschfeld; V.J. Ruther*; Howard Paine**	(offset/intaglio)	Deborah Alexander
Black Heritage – Jan E. Matzeliger				
A1921	29	Higgins Bond; R. Sennett*; B. Thompson**	(gravure: JWF)	-
Space Exploration				
A1922-1931		R. Miller	-	-
		Christmas		
Madonna				
A1933	29	B. Thompson**; P. Cocci*	Thomas R. Hipschen	Gary Slaght
Santa Claus – 29¢				
A1934-1938		J. Berkey; R. Sennett*; Howard Paine**	(gravure)	-
		(Sheets by J.W. Fergusson; booklets by Multicolor.)		
Pledge of Allegiance				
A1946	29	Lou Nolan; John Boyd**	(gravure)	-

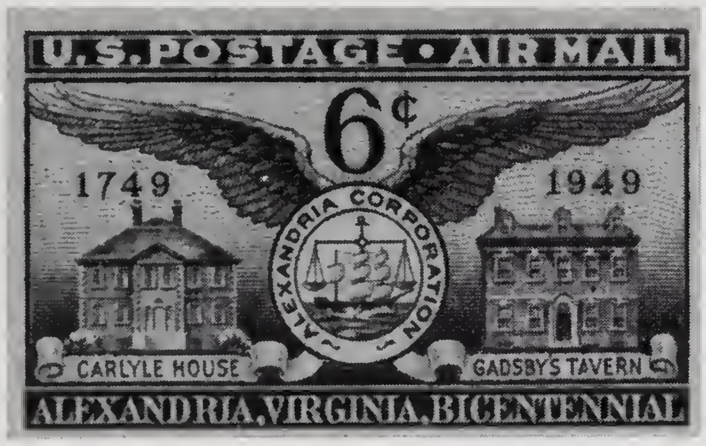
Scott No.	$/¢	Des., Mod., & Typ.	Vignette Engraver	Letter Engraver
Eagle and Shield — self-adhesive				
A1947	29	Jay Haiden; John Boyd**	Richard Barratz, BCA	-
1992				
Bulk Rate				
A1956	10	Chris Calle; John Boyd*	(gravure: ABNCo)	-
Stamp Expo '92				
A1968	29	Richard Sheaff**;	(offset/intaglio)	-
Black Heritage — William E. Burghardt Du Bois				
A1969	29	Higgins Bond; John Boyd**	(offset/intaglio)	-
Winter Olympics — 29¢				
A1963-1967		L. Busch; R. Sheaff**	(gravure: JWF)	-
Love				
A1970	29	Uldis Purins; R. Sheaff**	(gravure: ABNCo)	-
Baseball				
A1971	29	L. Busch	(gravure: JWF)	
Voyages of Columbus — 29¢				
A1972-1975		R. Schlecht	(gravure)	-
Columbian Expo Sheets		1¢, 2¢, 3¢, 4¢, 5¢, 6¢, 8¢, 10¢, 15¢, 30¢ & 50¢; $1, $2, $3, $4 & $5		
A1976-1981		R. Sheaff**;	(offset/intaglio: ABNCo; see Nos. A71-86)	-
New York Stock Exchange				
A1982	29	R. Sheaff; Jack Barnett*; Jeffries BNCo**	Dick Jones	-
Space Exploration — 29¢				
A1983-1986		Vladimir Beilin; J. Boyd**	(gravure)	-
Alaska Highway				
A1987	29	B. Birdsall; B. Thompson**	(offset/intaglio)	Gary Slaght
Kentucky Bicentennial				
A1988	29	J. Petro; R. Sennett*; B.T.**	(gravure: JWF)	-
Summer Olympics — 29¢				
A1989-1993		Karen Mallary; B. Thompson**	(offset/litho: Ashton-Potter America, Inc.)	
Hummingbirds — 29¢				
A1994-1998		C. Ripper; IC*; B. Thompson**	(gravure: Multi Colour)	-
Dorothy Parker				
A2050	29	G. Rudd; R. Sennett*; B.T.**	(gravure: JWF)	-
Theodore von Kármán				
A2051	29	C. Calle; R. Sennett*; John Boyd**	(gravure: JWF)	-
Minerals — 29¢				
A2052-2055		L. Buckley**; P. Cocci*	(gravure)	-
Juan Rodriguez Cabrillo				
A2056	29	R. Wicks; R. Sennett*; John Boyd**	(gravure: JWF)	-
Wildlife — 29¢				
A2057-2061		R. Giusti; R. Sennett*; John Boyd**	(gravure: JWF)	-
Christmas				
Bellini Madonna				
A2062	29	Lou Nolan**	(offset/litho: Ashton-Potter America, Inc.) (Gravure booklets by ABNCo.)	
Toys — 29¢				
A2063-2066		Bradbury Thompson**	Thomas R. Hipschen	Gary Slaght
Happy New Year				
A2067	29	Clarence Lee	(gravure)	-

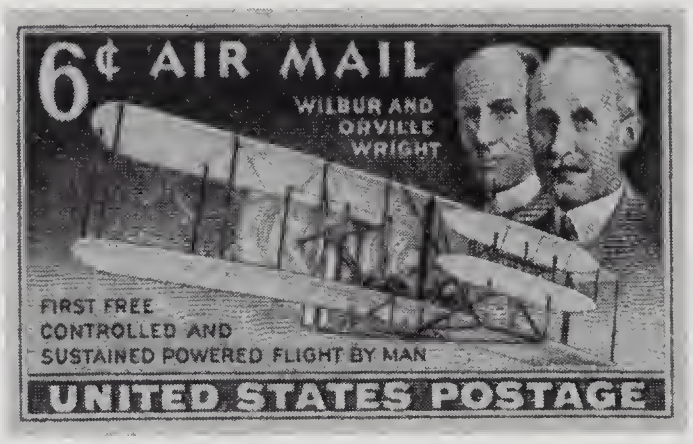
At times the designer acted as modeler (*) or typographer (**), or both. The designer, modeler and typographer, in that order, are separated by (;).

AIR MAIL

Scott No.	¢/$	Designer	Vignette Engraver	Letter Engraver
			1918	
Curtiss Jenny				
AP1	6	C.A. Huston	M.W. Baldwin	E.M. Weeks
AP1	16			
AP1	24			
			1923	
Wooden Propeller				
AP2	8	C.A. Huston	H.P. Dawson	E.M. Weeks
Air Service Emblem				
AP3	16	C.A. Huston	H.P. Dawson	E.M. Weeks
Biplane				
AP4	24	C.A. Huston	J. Eissler	E.M. Hall
			1926-1927	
Map and Two Planes				
AP5	10	C.A. Huston	J.C. Benzing	E.M. Hall
AP5	15		J.C. Benzing	E.M. Hall & F. Lamasure
AP5	20		J.C. Benzing	E.M. Hall & F. Lamasure
			1927	
Spirit of St. Louis				
AP6	10	C.A. Huston & A.R. Meissner	E.J. Hein	E.M. Hall & W.B. Wells
			1928	
Beacon				
AP7	5	A.R. Meissner	L.S. Schofield	E.M. Hall
			1930	
Winged Globe				
AP8	5	A.R. Meissner	F. Pauling	E.M. Hall
Graf Zeppelin				
AP9	65	C.A. Huston	J.C. Benzing	E.M. Hall & W.B. Wells
AP10	1.30	Huston & Meissner	J.C. Benzing	W.B. Wells
AP11	2.60	Huston & Meissner	L.C. Schofield	W.B. Wells
			1931-1932	
Century of Progress				
AP12	50	V.S. McCloskey & A.R. Meissner	J.C. Benzing	E.M. Hall & W.B. Wells
			1934	
Trans Pacific				
AP13	25	A.R. Meissner	Carl Arlt	E.M. Hall, D.R. McLeod & W.B. Wells
			1937	
China Clipper				
AP14	20	A.R. Meissner	Carl Arlt	D.R. McLeod & J.T. Vail
AP14	50	A.R. Meissner	Carl Arlt	D.R. McLeod & A. Payne
			1938	
Eagle				
AP15	6	W.K. Schrage	R. Ponickau & C.A. Brooks	W.B. Wells
			1939	
Winged Globe				
AP16	30	A.R. Meissner	F. Pauling & C. A. Brooks (ships)	E.M. Hall & J.T. Vail
			1941-1944	
Transport Plane				
AP17	all	W.A. Roach	J.R. Lowe	J.S. Edmondson & J.T. Vail

Scott No.	¢/$	Designer & Modeler	Vignette Engraver	Letter Engraver
			1946	
Skymaster				
AP18	5	V.S. McCloskey	C.A. Brooks	J.S. Edmondson
			1947 & 1949	
AP19	5	V.S. McCloskey	C.A. Brooks	A.W. Christensen
			1947	
Pan American Building				
AP20	10	V.S. McCloskey	E.R. Grove	A.W. Christensen
Statue of Liberty				
AP21	15	Leon Helguera; V.S. McCloskey*	Carl T. Arlt	A.W. Christensen
Oakland Bay Bridge				
AP22	25	W.K. Schrage	E.R. Grove	Charles A. Smith
			1948	
New York City				
AP23	5	V.S. McCloskey	M.D. Fenton	A.W. Christensen
			1949	
Alexandria Bicentennial				
AP24	6	Worth Bailey; C.R. Chickering*	C.A. Brooks	A.W. Christensen
Universal Postal Union				
AP25	10	C.R. Chickering	G.A. Gundersen	R.K. Barrick
AP26	15	C.R. Chickering	A.W. Christensen	A.W. Christensen
AP27	25	W.K. Schrage	M.D. Fenton	J.S. Edmondson
Wright Brothers				
AP28	6	C.R. Chickering	C.A. Brooks	A.W. Christensen
			1952	
Diamond Head				
AP29	80	V.S. McCloskey	G.A. Gundersen	J.S. Edmondson
			1953	
Powered Flight				
AP30	6	V.S. McCloskey	M.D. Fenton	J.S. Edmondson
			1954	
Eagle				
AP31	4	E.R. Grove; W.K. Schrage*	Wm. O. Marks	R.K. Barrick
			1958	
AP31	5	E.R. Grove; V.S. McCloskey*	M.D. Fenton	A.W. Christensen & R.J. Jones
			1957	
Air Force				
AP32	6	Alex Nagy, Jr.	A.M. Dintaman	Geo. A. Payne




6¢ AIR MAIL
WILBUR AND ORVILLE WRIGHT
FIRST FREE CONTROLLED AND SUSTAINED POWERED FLIGHT BY MAN
UNITED STATES POSTAGE

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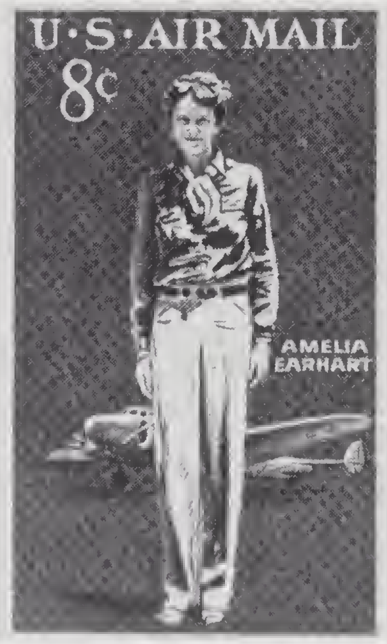
* Modeler

Scott No.	¢/$	Designer & Modeler	Vignette Engraver	Letter Engraver
			1958	
Jet Airliner				
AP33	5	V.S. McCloskey*	Wm. O. Marks	R.K. Barrick
			1959	
Alaska Statehood				
AP34	7	R.C. Lockwood; V.S. McCloskey*	C.A. Brooks	R.J. Jones
Balloon Jupiter				
AP35	7	Austin Briggs; W.K. Schrage*	R.J. Jones	R.J. Jones
Hawaii Statehood				
AP36	7	Joseph Fehr; C.R. Chickering*	C.A. Brooks	W.R. Burnell & Geo. A. Payne
Pan-American Games				
AP37	10	S.H. Ermoyan; W.K. Schrage*	M.D. Fenton	R.J. Jones
			1959-1966	
Liberty Bell				
AP38	10	Herb Lubalin	A.M. Dintaman	G.L. Huber
Statue of Liberty				
AP39	15	John Pistilli	R.M. Bower	G.L. Huber
Abraham Lincoln				
AP40	25	J. Lomberdero	M.D. Fenton	H.F. Sharpless
			1961-1967	
Statue of Liberty				
AP41	15	Herb Lubalin	A.M. Dintaman	R.J. Jones
			1962	
Airliner over Capitol				
AP42	8	H.K. Bencsath; C.R. Chickering*	C.A. Brooks	W.R. Burnell
			1963	
Montgomery Blair				
AP43	15	R.J. Jones	M.D. Fenton	Geo. A. Payne
Eagle				
AP44	6	V.S. McCloskey	M.D. Fenton	Geo. A. Payne
Amelia Earhart				
AP45	8	R.J. Jones	R.M. Bower	W.R. Burnell



AP45

AP48

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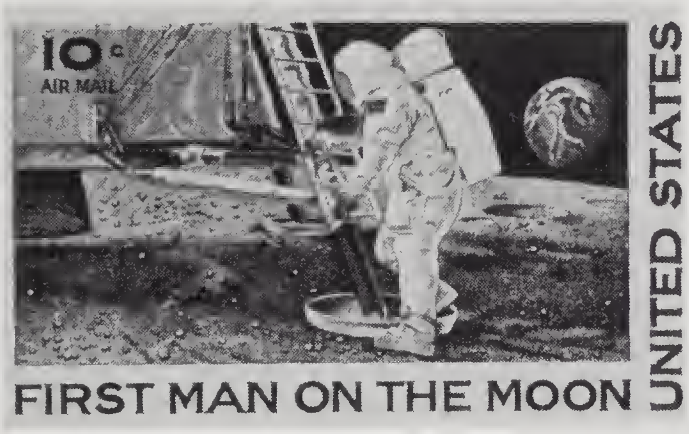
* Modeler

Scott No.	¢/$	Designer & Modeler	Vignette Engraver	Letter Engraver
			1964	
Robert Goddard				
AP46	8	H.K. Bencsath	C.A. Brooks	W.R. Burnell
			1967	
Alaska				
AP47	8	Willard R. Cox; R.J. Jones*	Edward R. Felver	Kenneth C. Wiram
Audubon				
AP48	20	R.J. Jones	M.D. Fenton	W.R. Burnell
			1968	
50-star Runway				
AP49	10	Hordur Karlsson;	A.M. Dintaman	Robert G. Culin
		H.C. Mildner*	A.M. Dintaman	Robert G. Culin
Curtiss Jenny				
AP50	10	Jaan Born; R.J. Jones*	W.R. Burnell	(offset/intaglio)
USA and Jet				
AP51	20	John Larrecq	H.F. Sharpless	(offset/intaglio)
			1969	



Scott No.	¢/$	Designer & Modeler	Vignette Engraver	Letter Engraver
Moon Landing				
AP52	10	Paul Calle; R.J. Jones*	Edward R. Felver	Albert Saavedra
			1971-1973	
Delta Wing				
AP53	9	George V. Sluis	Kenneth C. Wiram	Kenneth C. Wiram
Silhouette				
AP54	11	George V. Sluis	H.F. Sharpless	H.F. Sharpless
Winged Envelope				
AP55	13	N. Gruppo; E. Porter*	Thomas R. Hipschen	Robert G. Culin
Statue of Liberty				
AP56	17	H.C. Mildner	-	-
			1972	
Statue & Temple				
AP57	11	Paul Rabut	Edward R. Felver	H.F. Sharpless
Olympics				
AP58	11	Lance Wyman	-	(gravure)
			1973	
Electronics				
AP59	11	W.&N. Einsel	-	-
Statue of Liberty				
AP60	18	R.E. Shehorn; V. Jack Ruther*	J.S. Wallace, Jr.	J.L. Goodbody
Mt. Rushmore				
AP61	26		(same as above)	

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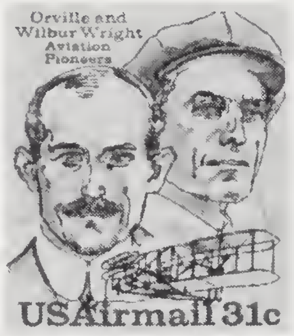
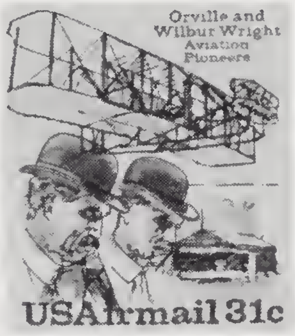
* Modeler

Scott No.	¢/$	Des., Mod. & Typ.	Vignette Engraver	Letter Engraver
			1974	
Plane & Globes				
AP62	25	David G. Foote; F.J. Waslick*	Gary Chaconas	J.L. Goodbody
AP63	31		(same as above)	
			1978	


Orville and Wilbur Wright Aviation Pioneers
USAirmail 31c


Orville and Wilbur Wright Aviation Pioneers
USAirmail 31c

Scott No.	¢/$	Des., Mod. & Typ.	Vignette Engraver	Letter Engraver
Wright Brothers				
AP64	31	Ken Dallison; Esther Porter*	Edward P. Archer	Albert Saavedra & J.L. Goodbody
AP65	31	Ken Dallison	-	(offset/intaglio)
			1979	
Chanute				
AP66	21	Ken Dallison	-	(offset/intaglio)
AP67	21	Ken Dallison	-	(offset/intaglio)
Wiley Post				
AP68	25	Ken Dallison	Edward P. Archer	Saavedra & K. Wiram
AP69	25	Ken Dallison	-	(same as above)
Olympics				
AP70	31	Robert M. Cunningham	-	(gravure)
			1980	
Philip Mazzei				
AP71	40	Sante Graziani	-	(gravure)
Blanche S. Scott				
AP72	28	Paul Calle	-	(gravure)
Glenn Curtiss				
AP73	35	Ken Dallison	-	(gravure)
			1983	
Olympics				
AP74-77	28	R. Peak; Cocci*; B.T.**	-	(gravure)
AP78-81	40		-	(gravure)
AP82-85	35		-	(gravure)
			1985	
A.V. Verville				
AP86	33	Ken Dallison; P. Cocci*	-	(gravure)
L. & E. Sperry				
AP87	39	H. Koslow; Porter*	-	(gravure)
Trans Pacific				
AP88	44	C. Hodgson; R.C. Sharpe*	-	(gravure)
AP89	44	R. Schlecht; R.C. Sharpe*	-	(gravure)

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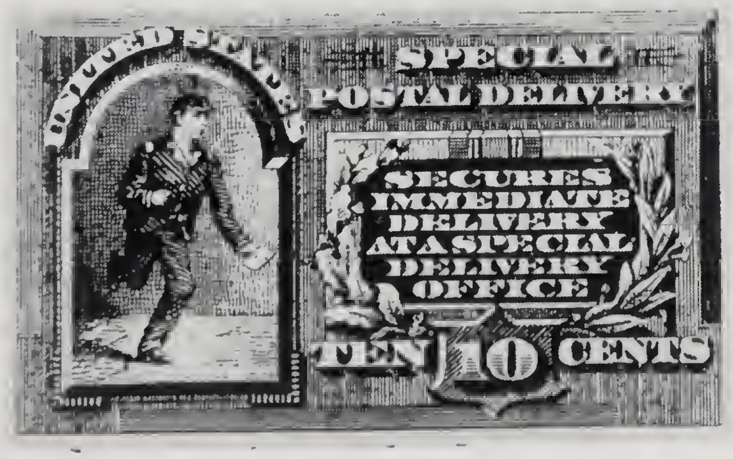
* Modeler
** Typographer

Scott No.	¢/$	Des., Mod. & Typ.	Vignette Engraver	Letter Engraver
1988				
AP90	44	G. Osterland (Sweden); F.J. Waslick*; B.T.**	Thomas R. Hipschen	Gary Slaght
AP91	45	K. Dallison; R.C. Sharpe*; B.Thompson**	Thomas R. Hipschen	(offset/intaglio)
AP92	36	R. Wicks; P. Cocci*; B. Thompson**	Gary Chaconas	G. Slaght & D. Brown
1989				
French Revolution Bicentennial				
AP93	45	R. Sheaff; V.J. Ruther*; B.Thompson**	Kenneth Kipperman	K. Wiram & D. Brown
America				
AP94	45	L. Busch; R. Sheaff*	-	(gravure)
Futuristic Postal Conveyance				
AP95-98	45	K. Hodges; V.J. Ruther*; R. Sheaff**	(offset/intaglio)	Michael J. Ryan
Air Post Special Delivery — 1934				
1991				
William T. Piper				
AP101	40	R. Wicks; R. Sennett*; B. Thompson**	-	(gravure: ABNCo)
Antarctic Treaty				
AP102	50	H. Koslow; R. Sennett*; Howard Paine**	-	(gravure: SV)
First Americans from Asia				
AP103	50	R. Schlecht; C. Holbert*; R. Sheaff**	-	(gravure)
APSD1	16	V.S. McCloskey	John Eissler	E.H. Helmuth

Special Delivery

1885


UNITED STATES
SPECIAL
POSTAL DELIVERY
SECURES IMMEDIATE DELIVERY AT A SPECIAL DELIVERY OFFICE
TEN 10 CENTS

Scott No.	¢/$	Des., Mod. & Typ.	Vignette Engraver	Letter Engraver
Messenger Running				
SD1	10	Thomas F. Morris	Charles Skinner	D.S. Ronaldson
1888				
SD2	10	Thomas F. Morris	Charles Skinner	D.S. Ronaldson
1894				
SD3	10	Thomas F. Morris	Charles Skinner	D.S. Ronaldson

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* Modeler
** Typographer

Scott No.	¢/$	Designer	Vignette Engraver	Letter Engraver
1902				
Bicycle Messenger				
SD4	10	R.O. Smith & C.A. Huston	Robert Ponickau	Lyman F. Ellis
1917				
Bicycle Messenger				
SD4	10	C.A. Huston	L.S. Schofield	E.M. Weeks
1908				
Helmet of Mercury				
SD5	10	Whitney Warren	Robert Ponickau	Frank Lamasure
1922 & 1927				
SD6	10	C.A. Huston	L.S. Schofield	Hall & Weeks
1925				
SD6	15	C.A. Huston	L.S. Schofield	Hall & Weeks
1925 & 1931				
SD6	15	C.A. Huston	John Eissler	Hall & Weeks
1944				
SD6	13	C.A. Huston	L.S. Schofield	Hall & Edmondson
SD6	17	C.A. Huston	L.S. Schofield	Hall & Christensen
1925				
SD7	20	C.A. Huston	L.S. Schofield	Hall & H.I. Earle
1954-1957				
SD8	20	V.S. McCloskey	M.D. Fenton	Edmondson & Barrick
1969-1971				
SD9	45	Norman Ives	-	H.F. Sharpless
Registration Stamp — 1911				
RS1	10	C.A. Huston	Robert Ponickau	E.M. Hall
Postage Due Stamps				
1879, 1887-1889 & 1891-1893				
(ABNCo)				
D1	all	-	James Dunn	D.S. Ronaldson
1894 (& 1895)				
D2	1	Thomas F. Morris	-	-
D2	2		-	Lyman F. Ellis & James Kennedy
D2	3		-	-
D2	5		-	E.M. Hall
D2	10			Lyman F. Ellis
D2	30		-	-
D2	50		-	Lyman F. Ellis
1910-1912; 1914-1915; 1916; 1917-1923				
D2	all	-	-	-
1925				
D2	½	C.A. Huston	-	E.M. Weeks
1930-1931				
D3	½	A. R. Meissner	-	Weeks & Lamasure
D3	1		-	Frank Lamasure
D3	2		-	Hall & Lamasure
D3	3		-	Earle & Lamasure
D3	5		-	Frank Lamasure
D3	10		-	Frank Lamasure
D3	30		-	Wells & Lamasure
D3	50		-	Earle & Lamasure
D3	$1		-	E.M. Hall
D3	$5		-	Howard I. Earle

Official Stamps

(ContBNCo)

Scott No.	¢/$	Designer	Vignette Engraver	Letter Engraver
Dept. of Agriculture				
O1	1	Joseph Claxton	Joseph I. Pease	-
O1	2		Louis Delnoce	-
O1	3		J.P. Ourdan	-
O1	6		J.P. Ourdan	-
O1	10		Louis Delnoce	-
O1	12		Louis Delnoce	-
O1	15		Louis Delnoce	-
O1	24		J.P. Ourdan	-
O1	30		J.P. Ourdan	-
Executive Department				
O1	1	Joseph Claxton	Joseph I. Pease	-
O1	2		Louis Delnoce	-
O1	3		J.P. Ourdan	-
O1	6		J.P. Ourdan	-
O1	10		Louis Delnoce	-
Department of Interior				
O1	1	Joseph Claxton	Joseph I. Pease	-
O1	2		Louis Delnoce	-
O1	3		J.P. Ourdan	-
O1	6		J.P. Ourdan	-
O1	10		Louis Delnoce	-
O1	12		Louis Delnoce	-
O1	15		Louis Delnoce	-
O1	24		J.P. Ourdan	-
O1	30		J.P. Ourdan	-
O1	90		Louis Delnoce	-
Department of Justice				
O1	1	Joseph Claxton	Joseph I. Pease	-
O1	2		Louis Delnoce	-
O1	3		J.P. Ourdan	-
O1	6		J.P. Ourdan	-
O1	10		Louis Delnoce	-
O1	12		Louis Delnoce	-
O1	15		Louis Delnoce	-
O1	24		J.P. Ourdan	-
O1	30		J.P. Ourdan	-
O1	90		Louis Delnoce	-
Navy Department				
O1	1	Joseph Claxton	Joseph I. Pease	-
O1	2		Louis Delnoce	-
O1	3		J.P. Ourdan	-
O1	6		J.P. Ourdan	-
O1	7		J.P. Ourdan	-
O1	10		Louis Delnoce	-
O1	12		Louis Delnoce	-
O1	15		Louis Delnoce	-
O1	24		J.P. Ourdan	-
O1	30		J.P. Ourdan	-
O1	90		Louis Delnoce	-

Scott No.	¢/$	Designer	Vignette Engraver	Letter Engraver
Post Office Department				
O6	6	-	-	D.S. Ronaldson
O6	10	-	-	
O6	12	-	-	

(Other denominations cannot be attributed to specific designers and engravers.)

Department of State				
O1	1	-	Joseph I. Pease	-
O1	2	-	Louis Delnoce	-
O1	3	-	J.P. Ourdan	-
O1	6	-	J.P. Ourdan	-
O1	7	-	J.P. Ourdan	-
O1	10	-	Louis Delnoce	-
O1	12	-	Louis Delnoce	-
O1	15	-	Louis Delnoce	-

Parcel Post

1912-1913

PP1	1	C.A. Huston	J. Eissler & M.W. Baldwin	E.M. Hall
PP2	2		J. Eissler & M.W. Baldwin	E.M. Hall
PP3	3		H.L. Chorlton	E.M. Hall
PP4	4		M.W. Baldwin	Hall & Myers
PP5	5		C.M. Chalmers	E.M. Hall
PP6	10		C.M. Chalmers	E.M. Hall
PP7	15		Fred Pauling & L.S. Schofield	E.M. Hall & E.E. Myers
PP8	20		H.L. Chorlton	Hall & Lamasure
PP9	25		H.L. Chorlton	Hall & Myers
PP10	50		M.W. Baldwin	E.M. Hall
PP11	75		C.M. Chalmers	Hall & Lamasure
PP12	$1		M.W. Baldwin	Frank Lamasure

(Harry L. Chorlton engraved the frames of PP1-PP12.)

Special Handling

1925-1929

PP13	10	C.A. Huston		E.M. Hall & D.R. McLeod
PP13	15			
PP13	20			
PP13	25			

Parcel Post Postage Due

1912

PPD1	1	C.A. Huston	-	J.C. Benzing
PPD1	2		-	-
PPD1	5		-	E.M. Hall
PPD1	10		-	-
PPD1	25		-	J.C. Benzing

(J.C. Benzing engraved the frames of the 1 & 25¢ stamps.)

The Year the Press was Established in Specific States and Territories

(The following was extracted from Thomas, see bibliography.)

Year	City	Location	Printer
1638	Cambridge	Massachusetts	Stephen Daye
1681	Williamsburg	Virginia	unknown
1686	Philadelphia	Pennsylvania	William Bradford
1693	New York	New York	William Bradford
1709	New London	Connecticut	Thomas Short
1726	Annapolis	Maryland	William Parks
1730	Charleston	South Carolina	Eleazar Phillips
1732	Newport	Rhode Island	James Franklin
1751	Woodbridge	New Jersey	James Parker
1755	New Bern	North Carolina	James Davis
1756	Portsmouth	New Hampshire	Daniel Fowle
1762	Wilmington	Delaware	James Adams
1762	Savannah	Georgia	James Johnston
1781	Westminster	Vermont	Spooner & Green
1786	Lexington	Kentucky	John Bradford
1793	Knoxville	Tennessee	G. Roulstone
1795	Cincinnati	Ohio	S. Freeman & Son
1810	St. Louis	Missouri	unknown
1815	Detroit	Michigan	unknown
1815	Natchez	Mississippi Territory	unknown

Patents that relate to bank notes (BN) and bonds (bd).

Subject	Inventor	Residence		Date	Number
BN	J.M. Batchelder	Cambridge,	MA	3 Feb. 1863	37,561
BN	J. Gibson, Jr.	Albany,	NY	3 Oct. 1871	119,599
BN	J. Murdoch	New York,	NY	26 Mar. 1861	31,820
BN bd, rev. stmp.	G.W. Casllear	Washington,	DC	15 Feb. 1870	99,757
BN bd, rev. stmp.	James Duthie	New York,	NY	9 Apr. 1872	125,550
BN blanks for	P. Hannay	Washington,	DC	15 Aug. 1856	15,486
BN color printing	W. Croome	Philadelphia,	PA	19 May 1857	17,319
BN cft. deterrent	Peabody & Dixon	Salem,	MA	20 Apr. 1832	———
BN cft. deterrent	M.C. Lea	Philadelphia,	PA	24 Apr. 1863	38,231
BN etching ends of	H.S. Tanner	Philadelphia,	PA	1 July 1815	———
BN formation of	George Murray	Philadelphia,	PA	23 Mar. 1822	———
BN cft. detecting	Laban Heath	Boston,	MA	2 July 1867	66,337
BN cft. deterrent	I. Rehn	Philadelphia,	PA	28 Apr. 1863	38,335
BN cft. deterrent	S. Beer	New York,	NY	1 Dec. 1868	84,606
BN cft. deterrent	C.D. Seropyan	New Haven,	CT	8 Jan. 1856	14,069
BN cft. deterrent	C.D. Seropyan	New York,	NY	2 June 1857	17,473
BN cft. deterrent	G.T. Jones	Cincinnati,	OH	15 May 1866	54,835
BN cft. deterrent	J. Kneass	—	–	28 Apr. 1815	———
BN cop. pl. ink roller	A. Maverick	New York,	NY	17 Apr. 1810	———
BN cutting shears	S.P. Ruggles	Boston,	MA	5 Jan. 1858	19,046
BN forgery guard	Abel Brewster	Hartford,	CT	15 July 1816	———
BN graphic plate	J. Meere	Philadelphia,	PA	1 July 1815	———
BN inking device	T. Robertson	New York,	NY	26 Oct. 1897	592,664
BN ink renovating	T. Robertson	New York,	NY	29 Aug. 1876	181,597
BN making	J.P. Puglia	Philadelphia,	PA	13 Aug. 1822	———
BN mfg. of	A.C. Carey	Lynn,	MA	10 Apr. 1860	27,857
BN mfg. of	G.T. Jones	Cincinnati,	OH	15 May 1866	54,834
BN mfg. of	G.T. Jones	Cincinnati,	OH	9 July 1867	66,500
BN plate engraving	G.W. Casilear	Washington,	DC	6 May 1873	138,613
BN plate engraving	G.W. Casilear	Washington,	DC	6 May 1873	138,614
BN plate preparation	Batchelder; Smith	Cambridge,	MA	24 Nov. 1857	18,668
BN plates	Alfred Jones	New York,	NY	3 May 1881	241,021
BN plt. prtng. press	T. Robertson	New York,	NY	2 July 1895	541,985
BN plt. prtng. press	T. Robertson	New York,	NY	19 Nov. 1895	549,796
BN press improvement	T. Robertson	New York,	NY	4 Apr. 1871	113,346
BN press improvement	T. Robertson	New York,	NY	20 Feb. 1872	123,933
BN press improvement	T. Robertson	New York,	NY	6 Aug. 1872	130,153
BN press improvement	T. Robertson	New York,	NY	14 Sept. 1897	590,114
BN press improvement	T. Robertson	New York,	NY	14 Sept. 1897	590,115
BN printing	A. Sellers	New York,	NY	23 Feb. 1864	41,724
BN printing	A. Tichenor	Newark,	NJ	7 June 1859	24,341
Cp. bd. improvement	T. Robertson	New York,	NY	11 Apr. 1876	175,875
Hand stamp for cutting checks & bonds	Cory & Brown	Brooklyn,	NY	17 May 1870	103,146

Patents that relate to postage and revenue stamps

Subject	Inventor	Residence		Date	Number
Adhesive	H. Loewenberg	New York,	NY	15 Nov. 1864	45,057
Adhesive	A.C. Fletcher	New York,	NY	5 Apr. 1870	101,604
Affixer	R.P. Thian	Georgetown,	DC	16 Sept. 1873	142,822
Affixer & canceler	T.A. Slack	Peoria,	IL	9 July 1867	66,528
Affixer	E.B. Morgan	Paterson,	NJ	21 Jan. 1873	135,143
Affixing instrument	C.B. Sill	Wilkins,	PA	17 Nov. 1868	84,223
Affixing machine	Benseman; Slocum	Washington,	DC	22 Apr. 1873	13,120
Affixing machine	G.K. Snow	Watertown,	MA	18 May 1858	20,306
Canceler	F.W. Brooks	New York,	NY	28 June 1870	104,761
Canceler	F.W. Brooks	New York,	NY	17 Jan. 1871	111,038
Canceler	F.W. Brooks	New York,	NY	6 June 1871	115,693
Canceler	H.W. Dopp	Buffalo,	NY	5 July 1870	105,052
Canceler	D.E. Eaton	Boston,	MA	12 Dec. 1871	121,765
Canceler	C.C. Egerton	Washington,	DC	17 Jan. 1871	110,962
Canceler	J. Goldsborough	Philadelphia,	PA	20 Dec. 1870	110,227
Canceler	J. Goldsborough	Philadelphia,	PA	27 June 1871	116,434
Canceler	J. Goldsborough	Philadelphia,	PA	26 Nov. 1872	133,435
Canceler	E.E. Hendrick	Carbondale,	PA	14 June 1870	104,148
Canceler	R.T. Osgood	Orland,	ME	16 Feb. 1869	87,000
Canceler	A.D. Owen	Thornton,	IN	14 Feb. 1871	111,773
Canceler	G.B. Rogers	Boston,	MA	30 Aug. 1870	106,963
Canceler	R.H. Rogers	New York,	NY	8 Dec. 1863	40,857
Canceler	J.E. Thompson	Buffalo,	NY	3 Dec. 1872	133,604
Canceler, hand	L.B. van Kleeck	New York,	NY	3 May 1870	162,734
Canceler, revenue	F.W. Brooks	New York,	NY	19 Dec. 1871	121,986
Canceler, rotary	W. Schacht	Brooklyn,	NY	24 June 1873	140,219
Canceling	C.E. Donnellan	Indianapolis,	IN	15 Nov. 1870	109,302
Canceling	J.W. Foster	Washington,	DC	3 Jan. 1865	45,708
Canceling	H. Greenfield	New York,	NY	11 Aug. 1868	80,943
Canceling	C.W. Harris	Pittsburgh,	PA	15 Nov. 1864	45,038
Canceling	E. Harmon	Washington,	DC	22 Mar. 1870	41,991
Canceling	T.S. Hudson	E. Cambridge,	MA	21 Nov. 1865	51,053
Canceling	M.P. Norton	Troy,	NY	15 Aug. 1865	49,432
Canceling	G.G. Noyes	Worcester,	MA	25 Oct. 1870	108,619
Canceling	W.A. Wheeler	New York,	NY	22 Feb. 1870	100,225
Canceling & reg.	C.F. Martorana	Baltimore,	MD	10 Dec. 1872	133,871
Canceling & severing	Brown & Delarue	Richmond,	VA	29 Aug. 1871	118,511
Canceling brand	A.D. Owen	Thornton,	IN	7 June 1870	103,919
Canceling device	S.W. Francis	New York,	NY	21 Apr. 1863	38,222
Canceling device	J.S. Gaston	Cincinnati,	OH	20 Apr. 1869	89,213
Canceling device	C.S. Wells	Chicopee,	MA	19 Sept. 1865	50,058
Canceling machine	C.E. Donnellan	Indianapolis,	IN	6 Dec. 1870	109,882
Canceling, postage	W. Raynor	Brooklyn,	NY	27 Oct. 1863	40,430
Canceling press	F. Hovey	New York,	NY	17 July 1866	56,498
Device for attaching	C.H. Bacon	Springfield,	OH	24 Dec. 1867	72,442
Device for preserving	J.P. Herron	Washington,	DC	7 June 1863	39,147
Device for lettering	T.C. Hargrave	Boston,	MA	21 Nov. 1871	121,099
Device for lettering	A. Parkham	Carrollton,	KY	13 Feb. 1872	123,587
Device for lettering	Maas & Fischer	Hamburg, Germany		17 Mar. 1868	75,638
Electrotype	G.U. Rose, Jr.	Washington,	DC	22 Nov. 1921	1,397,785
Hand canceler	J.B. Secor	Chicago,	IL	17 Oct. 1865	50,501
Holder	G.C. Hatch	Calcutta, India		14 Nov. 1871	120,970
Holder	J. Ropes	Ishpeming,	MI	31 Jan. 1871	111,385
Identifying	G. Pardy	San Francisco,	CA	10 Oct. 1871	119,715
Identifying	C.F. Bush	Pittsburgh,	PA	13 June 1905	792,312
Ink for printing	T. Antisell	Washington,	DC	5 Oct. 1869	95,662

Patents that relate to postage and revenue stamps
(continued)

Subject	Inventor	Residence		Date	Number
Ink application	C.M. Witherill	LaFayette,	IN	24 Jan. 1855	46,038
Ink application	W. Thorpe	St. Louis,	MO	5 Oct. 1869	95,624
Label sticker	C. Sellers	Philadelphia,	PA	16 June 1857	17,587
Manufacture of	C.F. Steel	Brooklyn,	NY	22 Oct. 1867	70,147
Manufacture of	G.T. Jones	Cincinnati,	OH	22 Mar. 1870	101,020
Multi-color print	Earle & Steel	Philadelphia,	PA	13 July 1869	92,593
Post marking	M.P. Norton	Troy,	NY	9 Aug. 1859	25,036
Post mark & cancel.	M.P. Norton	Troy,	NY	16 Dec. 1862	37,175
Postage	W.O. Besaw	Reedley,	CA	9 Mar. 1915	1,131,464
Postage	G.W. Bowlsby	Monroe,	MI	26 Dec. 1865	51,782
Postage	G.M. Bright	——		7 Mar. 1893	492,912
Postage	S. Carusi	Washington,	DC	14 Jan. 1868	73,296
Postage	S.R. Dummer	Jersey City,	NJ	23 May 1876	177,821
Postage	A.C. Fletcher	New York,	NY	8 June 1869	92,108
Postage	J.M. Sturgeon	New York,	NY	23 June 1868	79,157
Postage return	R.S. Williams	Merchantville,	NY	26 June 1894	522,037
P.O. stamp	B. Chambers	Washington,	DC	9 Sept. 1835	———
P.O. stamp	M.P. Norton	Troy,	NY	14 Apr. 1863	38,175
P.O. stamp	M.P. Norton	Troy,	NY	14 Jan. 1862	34,184
P.O. stamp	J. Spear	Philadelphia,	PA	14 Feb. 1860	27,194
P.O. stamp	A. White	Templeton,	MA	27 Feb. 1830	———
Postage & other	A.J. Gibson	Worcester,	MA	5 Jan. 1864	41,118
Postage & revenue	D.G. Beaumont	Austin,	TX	10 July 1877	192,893
Postage & revenue	A.C. Fletcher	New York,	NY	28 Mar. 1876	175,242
Postage & revenue	S.W. Francis	New York,	NY	27 June 1865	48,389
Postage & revenue	E. Harmon	Washington,	DC	9 Feb. 1864	41,505
Postage & revenue	M.K. Kellogg	Baltimore,	MD	12 May 1868	77,837
Postage & revenue	H. Lowenberg	New York,	NY	5 Apr. 1864	42,207
Postage & revenue	K. Wheeler	Brooklyn,	NY	18 Feb. 1879	212,416
Postage & revenue	J.E. Winner	Philadelphia,	PA	21 Mar. 1876	175,228
Postage & revenue	W.C. Wyckoff	Brooklyn,	NY	3 Apr. 1866	53,723
Printing	W.H. Elliot	Plattsburgh,	NY	10 Feb. 1857	16,581
Printing	W.H. Elliot	Plattsburgh,	NY	17 Feb. 1857	16,641
Protector, revenue	R.M. Smith	Baltimore,	MD	7 Nov. 1871	120,786
Registration	S.J. Halse	Milwaukee,	WI	19 Nov. 1907	871,502
Revenue	A. Atwood	New York,	NY	21 Sept. 1869	94,934
Revenue	G.W. Bishop	Baltimore,	MD	20 Oct. 1868	83,127
Revenue	F.W. Brooks	New York,	NY	13 Jan. 1880	223,432
Revenue	F.W. Brooks	New York,	NY	13 Jan. 1880	210,433
Revenue	Bowles; Eastlake	Washington,	DC	10 Dec. 1878	210,661
Revenue	G.W. Bowlsby	Monroe,	MI	14 July 1868	79,806
Revenue	F.C. Hamilton	New York,	NY	21 Sept. 1875	168,014
Revenue	R.F. Hunter	Staunton,	VA	13 May 1873	138,891
Revenue	E.A. Locke	Boston,	MA	3 Aug. 1869	93,391
Revenue	E.A. Locke	Boston,	MA	17 July 1877	193,167
Revenue	C.F. Martorama	Baltimore,	MD	24 Sept. 1872	131,694
Revenue	C. Stock	Dover Plains,	NY	24 Feb. 1880	224,853
Revenue attacher	R.L. Smith	Stockport,	NY	25 Apr. 1865	47,404
Rev., checks, etc.	G.W. Casilear	Washington,	DC	21 Sept. 1875	167,987
Revenue guard	W. Wohltmann	New York,	NY	3 Mar. 1874	148,159
Revenue & postage	C.F. Steel	New York,	NY	16 Feb. 1869	86,952
Revenue & postage	L. Abraham	New York,	NY	26 Apr. 1870	102,200
Self canceling	S.M. Clark	Washington,	DC	21 Dec. 1869	98,031
Stamp & currency holder	S.V. Beckwith	Brooklyn,	NY	3 June 1873	139,492
Tax fluorescent	S.W. Hunphner	Oak Park,	IL	25 Apr. 1939	2,156,018

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SIMILAR SUBJECTS often have the same or similar titles and descriptions. Consequently, it might be necessary to refer to more than one entry to find a specific subject. Subjects, in some instances, are known with two different, official titles. In addition, it is not uncommon for primary subjects to appear with different backgrounds and supporting devices. As an example, a female figure might appear with an agricultural background on one certificate and with devices that suggest chemistry or industry on another. If the official title of an engraving is unknown, the subject is described, e.g., *Eagle and Globe; Female with Sword; Man, Female and Globe*, etc. There was an attempt to be accurate by using "and" and "&" as they were used officially. It is possible that a few subjects might have been overlooked when this index was compiled.

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